

**FOR OFFICE USE ONLY**

**ANNUAL PROGRESS REPORT  
(April 2013 to March 2014)  
&  
ACTION PLAN (2014-2015)**

To be presented  
in

**ANNUAL ZONAL WORKSHOP ON**



**PROGRAMME CO-ORDINATOR  
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JUNAGADH AGRICULTURAL UNIVERSITY  
KHAPAT- 360579  
PORBANDAR (GUJARAT)**

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## **PROGRESS REPORT**

**(1<sup>st</sup> April 2013 to 31<sup>st</sup> March 2014)**

### **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	<a href="mailto:kvk_khapat@yahoo.co.in">kvk_khapat@yahoo.co.in</a> <a href="mailto:kvkghapat@jau.in">kvkghapat@jau.in</a>

#### **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. R. K. Odedra	-	09825280843	<a href="mailto:rkodedra@jau.in">rkodedra@jau.in</a>

#### **1.4. Year of sanction: February, 2005**

#### **1.5. Staff Position (as on 1<sup>st</sup> April 2014)**

Sr. No.	Sanctioned post	Name of the incumbent	Discipline	Pay Scale	Present Basic (Rs.)	Date of joining	Category
1	Programme Coordinator	Vacant	-	39400-67000	-	-	-
2	IC Programme Coordinator & SMS	R. K. Odedra	Horticulture	15600-39100	15600	1-06-09	OBC
3	Subject Matter Specialist	P. J. Gohil	Agronomy	15600-39100	20590	21-8-06	OBC
4	Subject Matter Specialist	R. B. Vadher	Entomology	15600-39100	20590	19-8-06	OBC
5	Subject Matter Specialist	H. R. Vadar	Agril. Engg. (SWE)	15600-39100	20590	22-8-06	OBC
6	Subject Matter Specialist	D. S. Thakar	Home Science	15600-39100	15600	22-8-06	Gen.
7	Subject Matter Specialist	S. R. Thaker	Fisheries	15600-39100	15600	31-8-06	Gen.
8	Programme Assistant	A. M. Bhimani	-	9300-34800 10, 000 (fix)	10000	13-3-12	Gen.
9	Computer Programmer	J J. Naliyapara	-	9300-34800	10810	12-6-08	OBC
10	Farm Manager	Vacant	-	9300-34800	-	-	-
11	Accountant / Superintendent	B. S. Bokhariya	--	9300-34800	9300	18-6-08	OBC
12	Stenographer	P. H. Parekh	-	5200-20200 5300 (fix)	5300	20-11-13	Gen.
13	Driver	Vacant	-	5200-20200	-	-	-
14	Driver	Vacant	-	5200-20200	-	-	-
15	Supporting staff	B. M. Vyas	-	4440-7440	8610	01-6-05	Gen.
16	Supporting staff	N. S. Chavda	-	4440-7440	4440	28-2-08	ST

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

Sr. No.	Item	Area (ha)
1	Under Roads & Buildings	2.451
2.	Under Demonstration Units and Observatories	0.337
3.	Under Field Crops	14.660
4.	Orchard/Agro-forestry/Horticulture Experiments	2.798
5.	Under farm ponds & WHS units	0.344

**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	2009	500 RM	-	-	-	completed
6	Threshing floor	ICAR	2009	900	-	-	-	completed
7	Farm godown	ICAR	2009	129	-	-	-	completed
8	Open well	ICAR	-	6 m dia.	-	-	-	In progress
9	Implement shed	ICAR	2011	76.4	-	-	-	completed

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor (Farmtrac)	2005	380000	36812 Hours	Good
Bolero Jeep	2005	496000	2,15,8214 Km	Good after major repairing
Motor cycle	2010	47000	7265 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	2008-09	27,500	Running

implement head peace			
Rotavator tractor operated	2008-09	96,000	Running
Planter tractor operated	2008-09	44,000	Running
Tractor drawn harrow cum cultivator cum intercultiator 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

Sr. No.	Date	Number of Participants	Salient Recommendations	Action taken
1	09/04/2013	<ol style="list-style-type: none"> <li>1. Dr. N. C. Patel, Hon'ble VC, J.A.U., Junagadh</li> <li>2. Shri Virambhai Karavadra President Porbandar Taluka</li> <li>3. Dr.H.B.Gardhria, Office of DEE, JAU, Junagadh</li> <li>4. Dr. I. U. Dhruj, ADR, JAU, Junagadh</li> <li>5. Dr. A. Y. Desai, Principal, CFS, JAU, Veraval,</li> <li>6. Shri S. K. Joshi, DAO, Porbandar</li> <li>7. Shri R. M Dave, Deputy Director (Horti. ), Porbandar</li> <li>8. Shri A D Vagadiya, Deputy Director (Ext. ), Porbandar</li> <li>9. Shri. Makvana , RFO, Rep. of DCF Porbandar</li> <li>10. Shri A N Ghadiali, Sup. of Fisheries, Porbandar</li> <li>11. Smt N. S Yadav, Rep. Project Director (ATMA), &amp; FTC, Porbandar</li> <li>12. Dr. N. B. Jadav, PC, KVK, JAU, Pipaliya (Dhoraji) Dist.: Rajkot</li> <li>13. Dr. R. B. Thanki, ARS, CRS, JAU, Khapat</li> <li>14. Shri Nikhil Thanki, DWDU, Porbandar</li> <li>15. Shri B. G. Gareja, ARS., DFRS, JAU, Ratiya, Ta. &amp; Dist. Porbandar</li> <li>16. Shri Ramjibhai Karabhai Dhokiya, At: Choliyana, Ta. Kutiyana, Dist Porbandar</li> <li>17. Smt. Rekhaben Ramdebhai Odedra, At Khambhala, Ta. Ranavav, Dist. Porbandar</li> <li>18. Smt. Hiriben Nagabhai Modhvadiya, At. Sisli, Ta. &amp; Dist. Porbandar</li> <li>19. Shri Ranabhai Ramabhai Rathod, At. Gorsari, Ta. &amp; Dist. Porbandar</li> <li>20. Liluben Manda Kodyatar, At.: Mokar, Ta. Ranavav, Dist. Porbandar</li> </ol>	<ol style="list-style-type: none"> <li>1. FLDs on prominenet varieties and technologies developed for major crops should be conducted</li> <li>2. Special trainings on method of demonstration seed treatment with maximum involmont of women</li> <li>3. To conduct vocational trainings on repir &amp; maintainance of farm machieneries</li> <li>4. To conduct more numbers of collaborative vocational trainings</li> <li>5. To promote use of <i>Trichoderma</i>, NPV, FYM, Vermicmopost etc.</li> </ol>	<ol style="list-style-type: none"> <li>1. The suggestion has been incorporated in proposal of FLDs</li> <li>2. Accepted and will be conducted</li> <li>3. Accepted and will be incorporated in the action plan</li> <li>4. The suggestion has been incorporated in the action plan</li> <li>5. The suggestion has been incorporated in the action plan</li> </ol>

		21. Sanga Jivabhai Mori, At.: Bordi, Ta. Ranavav, Dist. Porbandar		
2	26/12/2013	<ol style="list-style-type: none"> <li>1. Dr. N. C. Patel, Hon'ble VC, J.A.U., Junagadh</li> <li>2. Shri Babubhai Bokhriya, Hon'ble Minister</li> <li>3. Dr. A. M. Parakhia, DEE, JAU, Junagadh</li> <li>4. Dr. I. U. Dhruj, ADR, JAU, Junagadh</li> <li>5. Dr. A. Y. Desai, Principal, CFS, JAU, Veraval,</li> <li>6. Shri D. B. Gajera, DAO, Porbandar</li> <li>7. Shri S. K. Joshi, Deputy Director (Horti. &amp; Ext.), Porbandar</li> <li>8. Shri Kodyatar, Asst. Director of Fisheries, Porbandar</li> <li>9. Shri V. H. Hirpara, Project Director (ATMA), Porbandar</li> <li>10. Dr. N. B. Jadav, PC, KVK, JAU, Pipaliya (Dhoraji) Dist.: Rajkot</li> <li>11. Dr. R. B. Thanki, ARS, CRS, JAU, Khapat</li> <li>12. Shri Kirankumar Babu, DWDU, Porbandar</li> <li>13. Shri B. G. Gareja, ARS., DFRS, JAU, Ratiya, Ta. &amp; Dist. Porbandar</li> <li>14. Shri Ramjibhai Karabhai Dhokiya, At: Choliyana, Ta. Kutiyana, Dist Porbandar</li> <li>15. Smt. Rekhaben Ramdebhai Odedra, At Khambhala, Ta. Ranavav, Dist. Porbandar</li> <li>16. Smt. Hiriben Nagabhai Modhvadiya, At. Sisli, Ta. &amp; Dist. Porbandar</li> <li>17. Shri Ranabhai Ramabhai Rathod, At. Gorsari, Ta. &amp; Dist. Porbandar</li> </ol>	<ol style="list-style-type: none"> <li>1. No. of Trainings on animal husbandry should be doubled</li> <li>2. Trainning on seed treatment should be added</li> <li>3. Training on value addition on food grain should be added</li> <li>4. Training on nursery raising and plug nursery should be conducted</li> <li>5. Corrections in OFTs should be done under the guidance of concerned scientist of JAU</li> </ol>	<ol style="list-style-type: none"> <li>1. The suggestion has been incorporated</li> <li>2. The suggestion has been incorporated</li> <li>3. The suggestion has been incorporated</li> <li>4. The suggestion has been incorporated</li> <li>5. The suggestion has been incorporated in OFTs</li> </ol>

## 2. DETAILS OF DISTRICT

### 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	<b>Porbandar</b> district is located between 21° to 22° N latitude and 69° to 70° E longitude. <b>Khapat</b> - N 21° 40' 12" and E 69° 37' 14" <b>Soil:</b> medium black & silty loam with calcareous in nature <b>pH:</b> of the soil is ranging from 8.01 to 8.58 <b>Water:</b> Ec value up to 8.1 mm / cm <b>Average Rainfall:</b> 668. mm <b>Temperature Range:</b> 41.0° C to 12.0 °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	34241
2.	Sandy clay loam to sandy clay	Rainfall: <750 mm	46080
3.	Sandy clay to clay	Rainfall: <750 mm	86627
4.	Clay	Rainfall: <750 mm	56880
5.	Sandy clay loam to clay loam	Rainfall: 750-1000 mm	5707

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

Sr. No	Crop	Area (ha)	Production (MT)	Productivity (Kg/ha)
1	Groundnut	83055	164532	1981
2	Cotton	7280	6312	867
3	Wheat	34563	102514	2966
4	Cumin	21445	12898	602
5	Gram	12215	14340	1174
6	Sorghum	13545	9725	718
7	Green gram	4830	2347	486
8	Pearl millet	350	767	2192
9	Castor	110	217	1991

## 2.5. Weather data: Rainfall during the year 2013

MONTH	Rainfall (mm)	Rainy days
Jan-12	-	-
Feb-12	-	-
Mar-12	-	-
Apr-12	-	-
May-12	-	-
Jun-12	381.2	5
Jul-12	258.2	16
Aug-12	164.2	10
Sep-12	187.8	6
Oct-12	20	2
Nov-12	-	-
Dec-12	-	-
<b>Total</b>	<b>1011.4</b>	<b>39</b>

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

Category	Population	Production	Productivity
Cow	83108	-	-
Buffalo	105346	-	-
Sheep	22649	-	-
Goats	22325	-	-
Poultry	2069	-	-
Fish	-	-	-
<i>Marine</i>	10678 (Fisherman)	62628 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	Identified Thrust Areas
1.	Porbandar	Cluster I	1. Sisli 2. Pravada 3. Tukda(Miyani) 4. Bakharala 5. Madhavpur	Groundnut Wheat Cumin Coriander Sorghum Gram Fenugreek	<ul style="list-style-type: none"> <li>• IPM</li> <li>• Improved package of practices</li> <li>• IDM</li> <li>• Problematic soil</li> <li>• Poor quality water</li> </ul>
2.	Ranavav	Cluster II	1. Amardad 2. Khambhala 3. Thoyana 4. Vadotra 5. Mokar	Groundnut Cotton Sorghum Wheat Cumin Pearl millet	<ul style="list-style-type: none"> <li>• IPM</li> <li>• Improved package of practices</li> <li>• IDM</li> <li>• INM in Horticulture</li> </ul>
3.	Kutiyana	Cluster III	1. Kansabad 2. Roghda 3. Kotada 4. Amar 5. Kadegi	Groundnut Cotton Castor Sorghum Wheat Cumin Gram	<ul style="list-style-type: none"> <li>• IPM</li> <li>• Improved package of practices</li> <li>• IDM</li> <li>• Problematic soil</li> </ul>



## 2.8 Priority thrust areas

Sr. No	Discipline	Thrust area
1	Crop production	<ul style="list-style-type: none"> <li>Improved package of practices</li> <li>Improved varieties</li> <li>Organic farming</li> <li>INM</li> </ul>
2	Horticulture	<ul style="list-style-type: none"> <li>Improved package of practices for different spices</li> <li>PHT in fruits and vegetable</li> <li>INM in orchards</li> </ul>
3	Agriculture Engineering	<ul style="list-style-type: none"> <li>Efficient use of water &amp; Ground water recharge</li> <li>PHT and value addition</li> <li>Renewable Energy</li> </ul>
4	Plant Protection	<ul style="list-style-type: none"> <li>Integrated Pest and Diseases management</li> <li>Storage pest Management</li> <li>Biological control of Pest and Diseases</li> </ul>
5	Home science	<ul style="list-style-type: none"> <li>Skill oriented activities               <ul style="list-style-type: none"> <li>Sewing and embroidery</li> <li>Handicrafts</li> </ul> </li> <li>Value addition               <ul style="list-style-type: none"> <li>Fruits and vegetable preservation</li> <li>Preparation of bakery products</li> </ul> </li> </ul>
6	Fisheries	<ul style="list-style-type: none"> <li>Sea weed cultivation</li> <li>Fresh water aquaculture</li> <li>Brackish water aquaculture</li> </ul>

## 3. TECHNICAL ACHIEVEMENTS

### 3. A Details of target and achievements of mandatory activities by KVK during 2012-13

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
5	5	22	22	14	12	187	167

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	80	80	2000	2011	16	20	-	15802
Rural youth	7	7	175	170				
Extn. Functionaries	2	1	50	24				
<b>Total</b>	<b>89</b>	<b>88</b>	<b>2225</b>	<b>2215</b>	<b>16</b>	<b>20</b>	<b>-</b>	<b>15802</b>

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
-	168	-	4000

**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	IPM	Cotton	Low productivity due to sucking pest	Integrated Management of sucking pest in Bt. cotton	-	-	-	-	Pesticides & biopesticides
2	IDM	Chickpea	Wilt in chickpea	Effect of seed treatment on wilt in chickpea	-	-	-	-	Fungicide & biofungicide
3	INM	Wheat	Higher fertilizer consumption in wheat	Effect of Bio fertilizers on wheat yield	-	-	-	-	Biofertilizer
4	INM	Onion	Low quality & low productivity	Effect of sulphur on onion production	-	-	-	-	Sulphur
5	Renewable energy	Home Science	Nutrient loss in food	Comparison of solar Cooker with traditional cooking system	Solar cooker	Use of solar cooker	-	Demonstrations	Solar cooker

**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	2
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
Small Scale income generating enterprises										
Balanced nutrition										
<b>TOTAL</b>										5

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										
<b>TOTAL</b>										

\* *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	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
<b>TOTAL</b>								

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

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

### 3 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

**Integrated Management of sucking pest in Bt. cotton**

##### 2. Problem diagnose

Improper management of sucking pest in Bt. cotton. Farmers are using only costly chemical pesticides in higher doses indiscriminately.

##### Reasons for low yield of cotton

- Improper management of sucking pest in cotton
- Spraying of higher doses of chemical pesticides
- Lack of awareness about IPM

##### Problem solutions:

- Integrated pests management
- Reduce the indiscriminate use of chemical pesticides

---

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

- 1. Farmer's practice:** Higher doses of newer & costly chemical pesticides
- 2. Recommended. Practice:**  
Dimethioate 10ml/10 lit of water or Imidachloprid 7.5 ml/10 lit of water or Profenophos 16 ml/10 lit of water
- 3. Intervention:**  
Alternate spraying of recommended pesticides + *Verticillium lecanii* @ 30 g/10 lit of water + Neem oil (1500 ppm) @ 30 ml/10 lit of water.

**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**

- Yield (Kg/ha)
- Number of aphids & jassid (3 leaves per plant)
- Number of thrips & mites (3 leaves per plant)
- Economics (B:C ratio)

**7. Final recommendation for micro level situation:** Nil**8. Constraints identified and feedback for research:** Nil**9. Process of farmers participation:** Training and different extension activities**10. Farmers' reaction:** Use of chemical pesticide coupled with bio pesticides managed the sucking pest very effectively

## 11. Results:

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
Cotton	Rainfed /irrigated	Improper management of sucking pest	Integrated Management of sucking pest in Bt. cotton	3	<b>Farmer's practice:</b> Higher doses of newer & costly chemical pesticides	No. of aphid, No. of jassids, No. of thrips No. of mites	2.77 1.13 2.85 2.55	Though the farmers' practice reduced the population of sucking pest, intervention recorded the higher yield, net return & BC ratio.	
					<b>Reco. Practice:</b> Dimethioate 10ml/10 lit of water or Imidachlopid 7.5 ml/10 lit of water or Profenophos 16 ml/10 lit of water	No. of aphid, No. of jassids, No. of thrips No. of mites	3.45 1.50 3.75 3.45		
					<b>Intervention:</b> Alternate spraying of recommended pesticides + <i>Verticillium lecanii</i> @ 30 g/10 lit of water + Neem oil (1500 ppm) @ 30 ml/10 lit of water	No. of aphid, No. of jassids, No. of thrips No. of mites	3.83 1.58 4.20 3.90		

Detail	Production (kg/ha)	Net Return (Rs./ha)	BC ratio
11	12	13	14
Farmer's practice	2466	122067	3.20
Recommended practice	2554	126423	3.73
Intervention	2552	126324	3.76

**On Farm Trial: 2****1. Title of on-farm trials****Effect of seed treatment on wilt in chickpea****2. Problem diagnose**

Farmers are not giving seed treatment to chickpea seed before sowing particularly in Ghed area.

**Reasons for low yield of chickpea**

- Poor germination and wilt due to no seed treatment
- Problematic soil
- Lack of awareness about seed treatment in chickpea

**Problem solutions:**

- Seed treatment with chemical as well as bio fungicide

**3. Details of technologies selected for assessment/refinement****Treatments:****1. Farmer's practice:** No seed treatment**2. Recommended. Practice:**

Seed treatment with Carbendazime @ 3g/kg seed

**3. Intervention:**Seed treatment with *Trichoderma* @ 8 g/kg seed + *vitavax* (Carboxin) @ 3g/kg seed**4. Source of technology**

Recommended by Junagadh Agricultural University

**5. Production system and thematic area**

- Rainfed Production System
- Integrated disease Management

**6. Performance of the Technology with performance indicators**

- Yield (Kg/ha)
- Disease incidence, %
- Economics (B: C ratio)

**7. Final recommendation for micro level situation:** Nil**8. Constraints identified and feedback for research:** Nil**9. Process of farmers participation:** Training and different extension activities**10. Farmers' reaction:** Seed treatment reduced the wilt in chickpea and maintains optimum plant population

**Results:**

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
Chick pea	Rainfed	Poor germination due to no seed treatment and low yield	Effect of seed treatment on wilt in chickpea	3	<b>Farmer's practice:</b> No seed treatment	Disease incidence (%)	9.3	Disease incidence was reduced in intervention than FP. Yield, NR and BC ration was increased in intervention than FP. However, it was at par with recommended practice.	
					<b>Reco. Practice:</b> Seed treatment with Carbendazime @ 3g/kg seed	Disease incidence (%)	3.8		
					<b>Intervention:</b> Seed treatment with <i>Trichoderma</i> @ 8 g/kg seed + vitavax (Carboxin) @ 3g/kg seed	Disease incidence (%)	2.7		

Detail	Production (kg/ha)	Net Return (Rs./ha)	BC ratio
11	12	13	14
Farmer's practice	1852.0	53507	4.4
Recommended practice	2030.7	58968	4.6
Intervention	2140.3	61959	4.6



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**On Farm Trial: 3****1. Title of on-farm trials****Effect of Bio fertilizers on wheat yield****2. Problem diagnose**

Farmers are using only nitrogenous and phosphatic fertilizers

**Reasons for low yield of wheat**

- Improper dose of chemical fertilizers
- Lack of awareness about INM and biofertilizers

**Problem solutions:**

- Balanced nutrition and INM

**3. Details of technologies selected for assessment/refinement****Treatments:****1. Farmer's practice:** Application of only DAP & Urea in different doses**2. Recommended. Practice:** RDF 120-60-0 NPK kg/ha**3. Intervention:** Seed treatment with *Azotobacter* & PSB culture (250g/10kg seed) + 75% of RDF**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**

- Yield (Kg/ha)
- Economics (B:C ratio)

**7. Final recommendation for micro level situation:** Nil**8. Constraints identified and feedback for research:** Nil**9. Process of farmers participation:** Training and different extension activities**10. Farmers' reaction:** Use of biofertilizer can reduce the quantity of chemical fertilizer up to 25% and there was no any difference in productivity.

**Results:**

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
Wheat	Irrigated	Low yield due to improper nutrient management	Effect of biofertilizer on wheat yield	3	<b>Farmer's practice:</b> Application of only DAP & Urea in different doses	-	-	Yield, net return and BC ratio was higher under intervention and recommended practice than FP.	
					<b>Reco. Practice: RDF</b> 120-60-0 NPK kg/ha	-	-		
					<b>Intervention:</b> Seed treatment with <i>Azotobacter</i> & PSB culture (250g/10kg seed) + 75% of RDF	-	-		

Detail	Production (kg/ha)	Net Return (Rs./ha)	BC ratio
11	12	13	14
Farmer's practice	3861	57971	3.2
Recommended practice	4007	62448	3.4
Intervention	4040	64787	3.7

**On Farm Trial: 4**

**1. Title of on-farm trials**

**Effect of sulphur on onion production**

**2. Problem diagnose**

Farmers are using only NPK fertilizers in onion

**Reasons for low yield of wheat**

- Improper dose of chemical fertilizers
- Lack of awareness about use of sulphur

**Problem solutions:**

- Balanced nutrition and application of sulphur

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

**Treatments:**

- 1. Farmer's practice:** No use of sulphur
- 2. Recommended. Practice:** RDF + 20 kg sulphur/ha through gypsum at the time of sowing or elemental sulphur 20-25 DATP
- 3. Intervention:** RDF + 20 kg sulphur/ha (readily available in the market) at the time of sowing

**4. Source of technology**

Recommended by Junagadh Agricultural University

**5. Production system and thematic area**

- Rainfed Production System
- Nutrient Management

**6. Performance of the Technology with performance indicators**

- Yield (Kg/ha)
- Economics (B:C ratio)

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

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

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

**10. Farmers' reaction:** Use of sulphur in onion increase the yield as well as the quality of the onion

**Results:**

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
Onion	Irrigated	Low yield due to imbalanced nutrient management	Effect of sulphur on onion production	3	<b>Farmer's practice:</b> No use of sulphur	-	-	Yield, net return and BC ratio was higher under intervention and recommended practice than FP.	
					<b>Reco. Practice:</b> : RDF + 20 kg sulphur/ha through gypsum at the time of sowing or elemental sulphur 20-25 DATP	-	-		
					<b>Intervention:</b> RDF + 20 kg sulphur/ha (readily available in the market) at the time of sowing	-	-		

Detail	Production (t/ha)	Net Return (Rs./ha)	BC ratio
11	12	13	14
Farmer's practice	26.77	21297	1.19
Recommended practice	29.87	40417	1.37
Intervention	30.43	42423	1.39

**OFT: 5**

**Title: - Comparison of solar Cooker with traditional cooking system**

**Items:-**

1. Mango *Murbba*
2. Boiled Sweet potato
3. Boiled *Masala* sweet corn
4. Salted groundnut
5. Sesame *Mukhvas*

**Objective:-**

- (1) To improve quality of Prepared items
- (2) To reduce drudgery of farm women
- (3) To reduce time and fuel consumption

**Treatment: - Item no. 1**

- (1) Preparation by traditional method
- (2) preparation by sunlight heat
- (3) preparation by solar cooker

**Treatment: - Item no. 2-5**

- (1) Preparation by traditional method
- (2) Preparation by roasting
- (3) Preparation by solar cooker

**No. of Replications: - 5**

**Observations:-**

- (1) Time consumption
- (2) Fuel consumption
- (3) Movement
- (4) Cost saving
- (5) Organo laptic test
  - a. Sweetness
  - b. Texture
  - c. Consistency
  - d. Overall acceptance

**Results: Mango Murabba**

Sr. No.	Observation	Traditional Method	Sunlight Heat	Solar Cooker
1	Time Consumption	1.45 hrs.	36.45 hrs.	3.45 hrs.
2	Fuel Consumption	120 g. gas	-	-
3	Cost Saving	-	10.3 %	12.4 %
4	Organolaptic test			
a	Taste/ sweetness	4	5	5
b	Texture	5	5.3	6.7
c	Consistency	4.3	5.8	6.8
d	Overall Acceptance	-	-	√

**Results:**

Sr. No.	Item	Sesame Mukhvas			Salted Groundnut			Sweet Potato			Sweet Corn		
		Traditional Method (Firewood)	Preparation by Roasting (Gas)	Solar Cooker	Traditional Method (Firewood)	Preparation by Roasting (Gas)	Solar Cooker	Traditional Method (Firewood)	Preparation by Roasting (Gas)	Solar Cooker	Traditional Method (Firewood)	Preparation by Roasting (Gas)	Solar Cooker
1	Time Consumption (minute)	20	15	30	45	30	180	20	60	120	15	10	30
2	Fuel Consumption (g)	300	50.	-	650	100	-	350	200	-	250	45	-
3	Cost Saving (%)	-	1.40	4.19	-	8.9	22.2	-	-	41.6	-	7.4	20.7
4	<b>Organolaptic Test</b>												
a	Taste	5	5	6	4	6	7	4	4	6	5	5	6
b	Consistency	4	5	7	4	5	8	3	5	6	4	6	8
d	Overall Acceptance	-	-	√	-	-	√	-	-	√	-	-	√

**Note:**

- Organolaptic test based on ranking method as follows  
1-3 Dislike      4-6 Like      7-9 Most like  
The data is average value of ranking given by the group of women

**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 2012-13 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	INM	INM	Trainings, Field days FLDs & OFTs	30	2600	1250
2	Groundnut	IDM	<i>Trichoderma</i>	Trainings, Field days FLDs & OFTs	95	5075	2100
3	Cotton	INM & IPM	INM with full package	Trainings, Field days & FLDs	26	730	390
4	Wheat	INM	INM (Biofertilizers)	Trainings, Field days & FLDs	16	600	290
5	Coriander	Varietal Evaluation	Variety GC-2 & Improved package of practices	Trainings, Field days & FLDs	16	1300	675
6	Chick pea	Varietal Evaluation	Variety GC-3 & Improved package of practices	Trainings, & FLDs	28	2700	1475
7	Lucerne	Varietal Evaluation	Variety Anand-2 & Improved package of practices	Trainings, & FLDs	13	145	36
8	Cumin	Resource Conservation technology	BBF	Trainings, & FLDs	10	20	8
9	Animal Hus.	Balanced nutrition	Mineral mixture	Trainings, & FLDs	24	450	-
10	Agril. Eng.	Farm implement	Shredder	Trainings, & FLDs	20	535	-
11	Home Sci.	Renewable energy	Solar cooker	Trainings, & FLDs	22	123	-

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

**b. Details of FLDs implemented during Rabi 2012-13**

**a. 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	INM	Rabi-2012	10	10	2	18	20	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 2012	Irrigated	Medium Black	Low	medium	high	Groundnut	17/11 to 10/12/12	-	213.2	17

**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	INM	Lok-1/GW-496/366	20	10	40.0	26.25	36.83	33.41	10.3	-	-

**Economic impact**

Average Cost of cultivation (Rs./ha)		Gross Return (Rs./ha)		Net Return (Rs./ha)		Benefit-Cost Ratio
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
25850.0	27950.0	77343	70161	51493	42211	2.99

In addition to yield increment of 10.3%, the variety GW-366 has high degree of resistance to leaf & stem rust under artificial and natural conditions. The performance of variety is also better in terms of grain quality parameters. The variety recorded additional income of Rs. 9282.00 than local check.

**b. 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	Coriander	Varietal evaluation	Improved variety and package of practices	Rabi-2012	4	4	-	10	10	Nil
2	Cumin	Soil conservation	BBF	Rabi-2012	4	4	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					
Coriander	Rabi-12	Irrigated	Medium Black	Low	medium	high	Groundnut	18-27/11 - /2012	-	213.2	17
Cumin	Rabi-12	Irrigated	Medium Black	Low	medium	high	Groundnut	12/11 - 30/11/2012	-	213.2	17

**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	Coriander	Improved variety and Package of practices	GC-2	10	4	18.75	11.25	14.05	12.95	8.5	-	-
2	Cumin	BBF	GC-4	10	4	16.02	8.75	13.36	12.47	7.07	-	-

**Economic impact**

Average Cost of cultivation (Rs./ha)		Gross Return (Rs./ha)		Net Return (Rs./ha)		Benefit-Cost Ratio
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
20175.0	22850.0	112400	103600	92225	80750	5.57
26300.0	27900.0	167000	155875	140700	127975	6.35

According to the farmers feedback, the variety Gujarat Coriender-2 is high yielding, more branches, dense, foliage, umbels large size, grain purpose variety, bold seeds and no lodging. The variety recorded additional income of Rs. 11475.00 than local check. BBF in cumin proved better and increased the yield by 7.07% than normal sowing.

**c. Oilseed & Pulses 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	Gram	Varietal	GG-3	Rabi 2012-13	8	8	-	16	16	-

**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					
Gram	Rabi 2012-13	Rainfed	Medium Black	Low	medium	high	-	11-20/11/2012	18-25/2/2013	213.2	17

**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	Gram	Varietal	GG-3	16	8	30.00	15.00	20.42	18.82	8.5	-	-

**Economic impact**

Average Cost of cultivation (Rs./ha)		Gross Return (Rs./ha)		Net Return (Rs./ha)		Benefit-Cost Ratio
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
13500	15600	61260	56460	47760	40860	4.54

Improved variety of chickpea GG-3 increased the yield by 8.5% than local variety.

**Lucerne**

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	Lucerne	Varietal	Anang-2	Rabi 2012-13	5	5	1	12	13	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					
Lucerne	Rabi 2012-13	Irrigated	Medium Black	Low	medium	high	G. Nut	12-20/11/2012	-	213.2	17

### 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
						7	8	9			10	11
1	Lucerne	Varietal	Anand-2	13	5	900	640	751	681	9.2	-	-

Note: Yield approximation is based on 5 cuts

### Economic impact

Average Cost of cultivation (Rs./ha)		Gross Return (Rs./ha)		Net Return (Rs./ha)		Benefit-Cost Ratio
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
73300.0	74700.0	168975	154575	95675	79875	2.31

The data estimated based on average of 5 cuts of improved variety of Lucerne (Anand-2) increased the yield by 9.2% with additional income of Rs. 15800.00 than local variety.

- c. **Details of FLDs implemented during 2013-14 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)**

#### a. Oilseed & Pulses 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	INM	INM	Kharif 2013	10	10	-	20	20	-
2	Sesame	Varietal	GT-2	Kharif 2013	4	4	-	10	10	-
3	Pigeon pea	Varietal	GT-101	Kharif 2013	4	4	-	10	10	-

### 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 2013	Rainfed	Medium Black	Low	medium	high	Groundnut/wheat/cumin	17-30/6/13	18-29/10/13	1011.4	39
Sesame	Kharif 2013	Rainfed	Medium Black	Low	medium	high	Groundnut/wheat/cumin	20/6 to 8/7/13	17 to 28/10/13	1011.4	39
Pigeon pea	Kharif 2013	Rainfed/irrigated	Medium Black	Low	medium	high	Groundnut/wheat/cumin	23/7 to 5/8/13	19-29/1/2014	1011.4	39

**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	INM	GG-20	20	10	30.13	24.38	31.15	27.05	15.16		
2	Sesame	Varietal	GT-2	10	4	14.80	8.40	11.90	10.71	11.1		
3	Pigeon pea	Varietal	GT-101	10	4	24.12	19.86	22.28	20.14	10.63		
4	Green gram	Varietal	GM-4	5	2	13.00	11.75	11.78	10.78	9.2		

**Economic impact**

Average Cost of cultivation (Rs./ha)		Gross Return (Rs./ha)		Net Return (Rs./ha)		Benefit-Cost Ratio
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
25980	28530	124600	108200	98620	79670	4.80
24210	27420	148750	133875	124540	106455	6.14
18228	20556	94690	85595	76462	65039	5.19
18175	21500	70650	64650	52475	43150	3.88

Foliar application of micronutrient (Grade IV) improved the growth, yield and quality of groundnut. Sesame variety GT-2 recorded 11.1% higher yield with BC ratio of 6.14 than local check. Improved variety of pigeon pea (GT-101) and green gram (GM-4) recorded 10.63% and 9.2% higher yield respectively than local check.

**b. Other Crops:  
Cotton**

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	INM with full package	INM with full Package	Kharif 2013	10	10	3	22	25	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					
Cotton	Kharif 13	Rainfed/irrigated	Medium Black	Low	medium	high	G. Nut/ Cotton	27/5 to 14/6/13	2/1/2014 to 21/2/2014	1011.4	39

### 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	INM with full Package	Bt	25	10	68.50	16.25	42.35	37.06	14.3	-	-

### Economic impact

Average Cost of cultivation (Rs./ha)		Gross Return (Rs./ha)		Net Return (Rs./ha)		Benefit-Cost Ratio
Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
14	15	16	17	18	19	20
29870	31000	169420	148240	139550	117240	5.67

### c. 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-13	<i>Trichoderma</i>	Rainfed	24.22	22.08	9.65

### Technical Feedback on the demonstrated technologies

Sr. No	Feed Back
1	INM in groundnut increased production as well as improved the quality
2	Micronutrients and IPM improves the growth and yield of cotton
3	Creating awareness among the farmers about improved/high yielding varieties of the related crops
4	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
5	Make the farmers aware about Integrated Pest & Disease Management by the proper use of insecticide/fungicides.
6	
7	
8	Improved variety of Lucerne is better than the local variety
9	Improved variety of pigeon pea (GT-101) and chick pea (GG-3) are superior

### Farmers' reactions on specific technologies

Sr. No	Feed Back
1	An improved variety particularly of chick pea GG-3 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 improved varieties.
3	Micro nutrients in Cotton and groundnut can enhance the growth and increase production.
4	
5	Use of <i>Trichoderma</i> in groundnut is the best technology to control stem rot.

**Extension and Training activities under FLD**

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	11	-	207	-
2	Farmers Training	4	-	96	-
3	Media coverage	Nil			
4	Training for extension functionaries	-	-	-	-

**c. Details of FLD on Enterprises:****(i) Farm Implements:**

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Shredder	cotton	2	10	Volume of stalk bulk	Shredded up to the stalk length of 10-75 mm	-	Volume of stalk bulk 80% reduction in size (about 1/5 <sup>th</sup> )	-

\* *Field efficiency, labour saving etc.*

**(ii) Livestock, Fisheries etc.****Livestock: Nil**

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Buffalo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rabbitry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pigerry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sheep and goat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duckery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

**Fisheries:**

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mussels	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ornamental fishes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)	Sea weed cultivation	Sea weed sp.	1	10	10	Awaited												
<b>Total</b>			<b>1</b>	<b>10</b>	<b>10</b>													

**(iii) Other Enterprises: Nil**

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No. of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	
<b>Total</b>																	

**Women empowerment**

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
<b>Women</b>						
Pregnant women						
Adolescent Girl						
Other women	Solar cooker	1	5	Energy & cost saving	Detail is given below	
<b>Children</b>						
Neonats						
Infants						
Children						



Detail	With Conventional cooking/ member/month		With Solar cooking/ member/month		Saving/ member/month	
	Energy	Cost (Rs.)	Energy	Cost (Rs.)	Energy	Cost (Rs.)
Fire Wood	12 kg	110.00	6.8 Kg	62.0	5.2 kg.	48.00
Kerosene	1.9 lit	85.50	1.15 lit	51.75	0.75 lit.	33.75
LPG Cylinder	3.9 Kg	121.00	2.4 kg	74.40	1.5 kg	46.60

#### Advantages of solar cooker

- Solar Cooking involves no recurring expenses on fuel as the solar energy is absolutely free.
- Cost of the solar cooker gets recovered easily through savings on conventional fuel in few years. Regular use of a box type solar cooker may save 1.5 -2.5 LPG cylinders per year.
- It saves time, as the cook need not be present during cooking in a solar cooker.
- There is no fear of scorching the food.
- It provides better and more nutritious food due to slow cooking.
- It is simple to operate.
- It does not pollute the environment and conserves conventional energy.

**Farm implements and machinery: Nil**

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)			
						Demonstration	Check									
Shredder	Cotton	Shredding	1	2	10	-	-	80% size reduction	--	-	-	-	-	-	-	-

**Technical Feedback on the demonstrated technologies**

S. No	Feed Back
1	Cotton stalk reduces size of bulk by 80% with the help of shredder.
2	Use of solar cooker reduce the cost of cooking and maintain the nutritional quality of food as well as reduce the drudgery of farm women

**Farmers' reactions on specific technologies**

S. No	Feed Back
1	Use of solar cooker saves the time of cooking and fuel
2	Improved farm implements (shredder) geared up the recycling of biomass

**Extension and Training activities under FLD**

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	-	-	-	-
2	Farmers Training	2	11/2/2014 7/2/2014	50	
3	Media coverage	-	-	-	-
4	Training for extension functionaries	-	-	-	-

## 3.3 Achievements on Training

## A) ON Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	2	49	0	49	0	0	0	49	0	49
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	1	23	0	23	3	0	3	26	0	26
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	1	0	18	18	0	2	2	0	20	20
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	1	30	0	30	0	0	0	30	0	30
<b>b) Fruits</b>										
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	1	22	0	22	2	0	2	24	0	24
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
<b>c) Ornamental Plants</b>										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
<b>d) Plantation crops</b>										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-

<b>e) Tuber crops</b>	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>f) Spices</b>										
Production and Management technology	1	17	2	19	0	0	0	17	2	19
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	1	14	0	14	2	0	2	16	0	16
Integrated Nutrient Management	1	15	0	15	0	0	0	15	0	15
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-	-
<b>IV Livestock Production and Management</b>										
Dairy Management	1	24		24	0	0	0	24	0	24
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	2	0	49	49	0	0	0	0	49	49

Income generation activities for empowerment of rural Women	2	0	47	47	0	0	0	0	47	47
Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
<b>VI Agril. Engineering</b>										
Installation and maintenance of micro irrigation systems	1	20	0	20	0	0	0	20	0	20
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	1	20	0	20	2	0	2	22	0	22
Repair and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	1	29	0	29	0	0	0	29	0	29
<b>VII Plant Protection</b>										
Integrated Pest Management	2	36	0	36	8	0	8	44	0	44
Integrated Disease Management	1	23	0	23	3	0	3	26	0	26
Bio-control of pests and diseases	1	20	0	20	2	0	2	22	0	22
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
<b>VIII Fisheries</b>										
Integrated fish farming	1	20	25	45	0	0	0	20	25	45
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	1	26	0	26	0	0	0	26	0	26
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	1	25	0	25	0	0	0	25	0	25
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	16	0	16	4	0	4	20	0	20
<b>IX Production of Inputs at site</b>										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	1	26	0	26	1	0	1	27	0	27
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-

Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
<b>XI Agro-forestry</b>										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>26</b>	<b>455</b>	<b>141</b>	<b>596</b>	<b>27</b>	<b>2</b>	<b>29</b>	<b>482</b>	<b>143</b>	<b>625</b>
<b>(B) RURAL YOUTH</b>										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	1	28	0	28	0	0	0	28	0	28
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	22	0	22	1	0	1	23	0	23
Nursery Management of Horticulture crops	1	21	0	21	4	0	4	25	0	25
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	22	22	0	0	0	0	22	22
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	1	16	0	16	4	0	4	20	0	20
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	1	23	0	23	3	0	3	26	0	26
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	1	0	23	23	0	3	3	0	26	26
Rural Crafts	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>7</b>	<b>110</b>	<b>45</b>	<b>155</b>	<b>12</b>	<b>3</b>	<b>15</b>	<b>122</b>	<b>48</b>	<b>170</b>
<b>(C) Extension Personnel</b>										
Productivity enhancement in field crops	1	17	3	20	3	1	4	20	4	24
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	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>1</b>	<b>17</b>	<b>3</b>	<b>20</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>20</b>	<b>4</b>	<b>24</b>
<b>Grand Total</b>	<b>34</b>	<b>582</b>	<b>189</b>	<b>771</b>	<b>42</b>	<b>6</b>	<b>48</b>	<b>624</b>	<b>195</b>	<b>819</b>

**B) OFF Campus**

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	1	0	25	25	0	0	0	0	25	25
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	1	0	21	21	0	6	6	0	27	27
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	3	75		75	2	0	2	77	0	77
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	1	24	0	24	2	0	2	26	0	26
<b>b) Fruits</b>										
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	1	17	8	25	0	0	0	17	8	25
Cultivation of Fruit	1	0	22	22	0	0	0	0	22	22
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	1	26	0	26	0	0	0	26	0	26
<b>c) Ornamental Plants</b>										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	1	25	0	25	0	0	0	25	0	25
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
<b>d) Plantation crops</b>										
Production and Management technology	1	19	0	19	3	0	3	22	0	22
Processing and value addition	-	-	-	-	-	-	-	-	-	-



<b>e) Tuber crops</b>										
Production and Management technology	1	11	9	20	2	2	4	13	11	24
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>f) Spices</b>										
Production and Management technology	1	0	15	15	0	1	1	0	16	16
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	1	25	0	25	0	0	0	25	0	25
Integrated Nutrient Management	2	35	0	35	0	0	0	35	0	35
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	1	19	0	19	3	0	3	22	0	22
Soil and Water Testing	1	23	0	23	1	0	1	24	0	24
<b>IV Livestock Production and Management</b>										
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	1	26	0	26	2	0	2	28	0	28
Feed management	1	23	0	23	2	0	2	25	0	25
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	1	0	26	26	0	3	3	0	29	29
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	2	0	54	54	0	3	3	0	57	57
Minimization of nutrient loss in processing	1	0	23	23	0	5	5	0	28	28
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	2	0	74	74			0	0	74	74

Income generation activities for empowerment of rural Women	1	0	29	29	0	6	6	0	35	35
Location specific drudgery reduction technologies	1	0	40	40	0	2	2	0	42	42
Rural Crafts	1	0	0	0	0	25	25	0	25	25
Women and child care	1	0	58	58	0	0	0	0	58	58
<b>VI Agril. Engineering</b>										
Installation and maintenance of micro irrigation systems	1	25	0	25	0	0	0	25	0	25
Use of Plastics in farming practices	1	10	9	19	1	2	3	11	11	22
Production of small tools and implements	1	25	0	25	0	0	0	25	0	25
Repair and maintenance of farm machinery and implements	1	21	0	21	0	0	0	21	0	21
Small scale processing and value addition	1	22	0	22	0	0	0	22	0	22
Post Harvest Technology	1	23	0	23	0	0	0	23	0	23
<b>VII Plant Protection</b>										
Integrated Pest Management	3	60	6	66	6	0	6	66	6	72
Integrated Disease Management	2	40		40	3	0	3	43	0	43
Bio-control of pests and diseases	3	59	2	61	5	0	5	64	2	66
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
<b>VIII Fisheries</b>										
Integrated fish farming	1	25	0	25	0	0	0	25	0	25
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	1	18	15	33	0	0	0	18	15	33
Hatchery management and culture of freshwater prawn	1	29	0	29	0	0	0	29	0	29
Breeding and culture of ornamental fishes	1	23	0	23	0	0	0	23	0	23
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	1	22	0	22	0	0	0	22	0	22
Shrimp farming	3	70	0	70	2	0	2	72	0	72
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	2	37	0	37	4	0	4	41	0	41
<b>IX Production of Inputs at site</b>										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	-	-	-	-	-	-	-	-	-	-
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-

Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
<b>XI Agro-forestry</b>										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>54</b>	<b>857</b>	<b>436</b>	<b>1293</b>	<b>38</b>	<b>55</b>	<b>93</b>	<b>895</b>	<b>491</b>	<b>1386</b>
<b>(B) RURAL YOUTH</b>										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>(C) Extension Personnel</b>										
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	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total</b>	<b>54</b>	<b>857</b>	<b>436</b>	<b>1293</b>	<b>38</b>	<b>55</b>	<b>93</b>	<b>895</b>	<b>491</b>	<b>1386</b>

**C. Consolidated table (ON and OFF Campus)**

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
<b>(A) Farmers &amp; Farm Women</b>										
<b>I Crop Production</b>										
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	1	0	25	25	0	0	0	0	25	25
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	1	0	21	21	0	6	6	0	27	27
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	5	124	0	124	2	0	2	126	0	126
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	1	23	0	23	3	0	3	26	0	26
<b>II Horticulture</b>										
<b>a) Vegetable Crops</b>										
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	-	-	-	-	-	-	-	-	-	-
Nursery raising	1	0	18	18	0	2	2	0	20	20
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	2	54	0	54	2	0	2	56	0	56
<b>b) Fruits</b>										
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	1	17	8	25	0	0	0	17	8	25
Cultivation of Fruit	2	22	22	44	2	0	2	24	22	46
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	1	26	0	26	0	0	0	26	0	26
<b>c) Ornamental Plants</b>										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	1	25	0	25	0	0	0	25	0	25

Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
<b>d) Plantation crops</b>										
Production and Management technology	1	19	0	19	3	0	3	22	0	22
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>e) Tuber crops</b>										
Production and Management technology	1	11	9	20	2	2	4	13	11	24
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>f) Spices</b>										
Production and Management technology	2	17	17	34	0	1	1	17	18	35
Processing and value addition	-	-	-	-	-	-	-	-	-	-
<b>g) Medicinal and Aromatic Plants</b>										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
<b>III Soil Health and Fertility Management</b>										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	2	39	0	39	2	0	2	41	0	41
Integrated Nutrient Management	3	50	0	50	0	0	0	50	0	50
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	1	19	0	19	3	0	3	22	0	22
Soil and Water Testing	1	23	0	23	1	0	1	24	0	24
<b>IV Livestock Production and Management</b>										
Dairy Management	1	24	0	24	0	0	0	24	0	24
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	1	26	0	26	2	0	2	28	0	28
Feed management	1	23	0	23	2	0	2	25	0	25
Production of quality animal products	-	-	-	-	-	-	-	-	-	-
<b>V Home Science/Women empowerment</b>										
Household food security by kitchen gardening and nutrition gardening	1	0	26	26	0	3	3	0	29	29
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-

Designing and development for high nutrient efficiency diet	2	0	54	54	0	3	3	0	57	57
Minimization of nutrient loss in processing	1	0	23	23	0	5	5	0	28	28
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	4	0	123	123	0	0	0	0	123	123
Income generation activities for empowerment of rural Women	3	0	76	76	0	6	6	0	82	82
Location specific drudgery reduction technologies	1	0	40	40	0	2	2	0	42	42
Rural Crafts	1	0	0	0	0	25	25	0	25	25
Women and child care	1	0	58	58	0	0	0	0	58	58
<b>VI Agril. Engineering</b>										
Installation and maintenance of micro irrigation systems	2	45	0	45	0	0	0	45	0	45
Use of Plastics in farming practices	1	10	9	19	1	2	3	11	11	22
Production of small tools and implements	2	45	0	45	2	0	2	47	0	47
Repair and maintenance of farm machinery and implements	1	21	0	21	0	0	0	21	0	21
Small scale processing and value addition	1	22	0	22	0	0	0	22	0	22
Post Harvest Technology	2	52	0	52	0	0	0	52	0	52
<b>VII Plant Protection</b>										
Integrated Pest Management	5	96	6	102	14	0	14	110	6	116
Integrated Disease Management	3	63	0	63	6	0	6	69	0	69
Bio-control of pests and diseases	4	79	2	81	7	0	7	86	2	88
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
<b>VIII Fisheries</b>										
Integrated fish farming	2	45	25	70	0	0	0	45	25	70
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	1	26	0	26	0	0	0	26	0	26
Composite fish culture	1	18	15	33	0	0	0	18	15	33
Hatchery management and culture of freshwater prawn	2	54	0	54	0	0	0	54	0	54
Breeding and culture of ornamental fishes	1	23	0	23	0	0	0	23	0	23
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	1	22	0	22	0	0	0	22	0	22

Shrimp farming	3	70	0	70	2	0	2	72	0	72
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	3	53	0	53	8	0	8	61	0	61
<b>IX Production of Inputs at site</b>										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	1	26	0	26	1	0	1	27	0	27
Bio-fertilizer production	-	-	-	-	-	-	-	-	-	-
Vermi-compost production	-	-	-	-	-	-	-	-	-	-
Organic manures production	-	-	-	-	-	-	-	-	-	-
Production of fry and fingerlings	-	-	-	-	-	-	-	-	-	-
Production of Bee-colonies and wax sheets	-	-	-	-	-	-	-	-	-	-
Small tools and implements	-	-	-	-	-	-	-	-	-	-
Production of livestock feed and fodder	-	-	-	-	-	-	-	-	-	-
Production of Fish feed	-	-	-	-	-	-	-	-	-	-
<b>X Capacity Building and Group Dynamics</b>										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
<b>XI Agro-forestry</b>										
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>80</b>	<b>1312</b>	<b>577</b>	<b>1889</b>	<b>65</b>	<b>57</b>	<b>122</b>	<b>1377</b>	<b>634</b>	<b>2011</b>
<b>(B) RURAL YOUTH</b>										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	1	28	0	28	0	0	0	28	0	28
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	22	0	22	1	0	1	23	0	23
Nursery Management of Horticulture crops	1	21	0	21	4	0	4	25	0	25
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	22	22	0	0	0	0	22	22
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	1	16	0	16	4	0	4	20	0	20
Fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Small scale processing	1	23	0	23	3	0	3	26	0	26
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Tailoring and Stitching	1	0	23	23	0	3	3	0	26	26
Rural Crafts	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>7</b>	<b>110</b>	<b>45</b>	<b>155</b>	<b>12</b>	<b>3</b>	<b>15</b>	<b>122</b>	<b>48</b>	<b>170</b>
<b>(C) Extension Personnel</b>										
Productivity enhancement in field crops	1	17	3	20	3	1	4	20	4	24
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	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>1</b>	<b>17</b>	<b>3</b>	<b>20</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>20</b>	<b>4</b>	<b>24</b>
<b>Grand Total</b>	<b>88</b>	<b>1439</b>	<b>625</b>	<b>2064</b>	<b>80</b>	<b>61</b>	<b>141</b>	<b>1519</b>	<b>686</b>	<b>2205</b>

**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	
Agri product	12/11/2013	Small scale processing and value addition	Value addition	1	26	0	26	-	-	-	-
Vermicompost	04/11/2013	Production of organic inputs	Production of organic input	1	28	0	28	-	-	-	-
bio products	01/01/2013	Self preparation of bio products	Production of organic input	1	27	0	27	-	-	-	-
Fruits	15/12/2013	Nursery raising business	Planting material production	1	25	0	25	-	-	-	-
-	20/12/2013	Rice/ urad papad, khakhra and vadi making	Income generation activities	1	0	22	22	-	-	-	-
Seaweed	21/2/2014	Sea weed Culture and Preparation of LSF	seaweed	1	20	0	20	-	-	-	-
-	15/3/2014	Cutting, tailoring, embroidery and handicraft	Rural crafts	1	0	26	26	-	-	-	-
-	28/1/2013	Installation and maintenance of MISs	MIS	1	23	0	23	-	-	-	-

**E. Sponsored Training Programmes**

Sl.	Date	Title	Discipline	Thematic area	Duration (days)	Client	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	2/5/2013	Cotton production technology	Crop production	ICM	1	Farmers	1	43	7	50	1	0	1	44	7	51	ATMA	-
2	9/7/2013	IPDM in groundnut	Plant protection	IPM	1	Farmers	1	43	4	47	0	0	0	43	4	47	ATMA	-
3	10/7/2013	Bio fertilizers	Crop production	Production and use of organic inputs	1	Farmers	1	35	0	35	0	0	0	35	0	35	ATMA	-
4	11/7/2013	IPDM in Cotton	Plant protection	IDM	1	Farmers	1	43	0	43	0	0	0	43	0	43	ATMA	-
5	12/7/2013	Micro irrigation systems	Agril. Engg.	Installation and maintenance of micro irrigation systems	1	Farmers	1	34	0	34	0	0	0	34	0	34	ATMA	-
6	1/8/2013	Crop planning and soil reclamation	Crop production	Soil fertility management	1	Farmers	1	44	0	44	2	0	2	46	0	46	ATMA	-
7	13/8/2013	Fresh water prawn cultivation	Fisheries	Hatchery management and culture of freshwater prawn	1	Farmers	1	27	0	27	0	0	0	27	0	27	ATMA	-
8	16/9/2013	IPDM in groundnut	Plant protection	IDM	1	Farmers	1	42	67	109	1	0	1	43	67	110	ATMA	-
9	17/9/2013	Micro irrigation systems and Value addition	Agril. Engg.	Installation and maintenance of micro irrigation systems	1	Farmers	1	11	46	57	31	1	32	42	47	89	ATMA	-

10	18/9/2013	Stem rot management in groundnut	Plant protection	IDM	1	Farmers	1	92	11	103	7	0	7	99	11	110	ATMA	-
11	19/9/2013	Varieties and seed production of groundnut	Crop production	Seed production	1	Farmers	1	67	19	86	0	0	0	67	19	86	ATMA	-
12	20/9/2013	seed production Technology	Crop production	Seed production	1	Farmers	1	44	36	80	0	0	0	44	36	80	ATMA	-
13	21/9/2013	Value addition and export	Home Science	value addition	1	Farmers	1	69	46	115	0	0	0	69	46	115	ATMA	-
14	11/11/2013	PHT in Fisheries product	Fisheries	Fish processing and value addition	1	Farmers	1	28	79	107	0	0	0	28	79	107	ATMA	-

## 3.4 Extension Programmes (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Participants											
		Farmers (Others) I			SC/ST (Farmers) II			Extension Officials III			Grand Total (I+II+III)		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	11	168	8	176	24	4	28	3	0	3	195	12	207
Kisan Mela	1	950	800	1750	220	113	333	36	6	42	1206	919	2125
Kisan Ghosthi	13	203	0	203	42	0	42	0	0	0	245	0	245
Exhibition	2	1028	820	1848	185	92	277	0	0	0	1213	912	2125
Film Show	49	1081	186	1267	224	44	268	9	2	11	1314	232	1546
Method Demonstrations	12	828	320	1148	94	32	126	22	8	30	944	360	1304
Farmers Seminar	3	95	0	95	28	0	28	22	8	30	145	8	153
Workshop	0	0	0	0	0	0	0	0	0	0	0	0	0
Group meetings	12	183	0	183	25	0	25	0	0	0	208	0	208
Lectures delivered as resource persons	64	763	213	976	179	29	208	18	3	21	960	245	1205
Newspaper coverage	1	0	0	0	0	0	0	0	0	0	0	0	0
Radio talks	0	0	0	0	0	0	0	0	0	0	0	0	0
TV talks	0	0	0	0	0	0	0	0	0	0	0	0	0
Popular articles	0	0	0	0	0	0	0	0	0	0	0	0	0
Extension Literature	8	1036	523	1559	528	176	704	0	0	0	1564	699	2263
Advisory Services	1505	1024	203	1227	216	62	278	0	0	0	1240	265	1505
Scientific visit to farmers field	160	93	42	135	22	3	25	0	0	0	115	45	160
Farmers visit to KVK	14	1132	628	1760	308	162	470	0	0	0	1440	790	2230
Diagnostic visits	147	208	28	236	71	0	71	0	0	0	279	28	307
Exposure visits	3	68	0	68	9	0	9	0	0	0	77	0	77
Ex-trainees Sammelan	2	38	0	38	7		7	0	0	0	45	0	45
Soil health Camp	0	0	0	0	0	0	0	0	0	0	0	0	0
Animal Health Camp	0	0	0	0	0	0	0	0	0	0	0	0	0

Agri mobile clinic	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	0	0	0	0	0	0	0	0	0	0	0	0	0
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	1	0	12	12	0	0	0	0	0	0	0	12	12
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0	0	0	0
Celebration of important days ( )	3	48	23	71	9	5	14	0	0	0	57	28	85
<b>Total</b>	<b>2011</b>	<b>8946</b>	<b>3806</b>	<b>12752</b>	<b>2191</b>	<b>722</b>	<b>2913</b>	<b>110</b>	<b>27</b>	<b>137</b>	<b>11247</b>	<b>4555</b>	<b>15802</b>

### Details of the "Technology Week" Celebration on Groundnut during 16-21 Sept. 2013

Date and theme Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
<b>Date :</b> 16 to 21 <sup>st</sup> September 2013  <b>Theme :</b> Integrated Crop Management (Groundnut)	Gosthies	5	328	Improved Agril. Technology
	Lectures organized	25	568	Drought mitigation and Improved Agril. Technology
	Exhibition	1	693.	Farm Machinery & MIS, Organic fertilizer
	Film show	5	568	IPM/INM/Organic farming/vermicomposting
	Fair	-	-	-
	Farm Visit	5	525	Groundnut Seed Production, Vermicompost unit, Green/Net house, Crop Cafeteria (Groundnut)
	Diagnostic Practical	-	-	-
	Distribution of Literature (No.)	3	693	-
	Distribution of Seed (q)	-	-	-
	Distribution of Planting materials (No.)	-	-	-
	Bio Product distribution (Kg)	-	-	-
	Bio Fertilizers (q)	-	-	-
	Distribution of fingerlings	-	-	-
	Distribution of Livestock specimen (No.)	-	-	-
	Total number of farmers visited the technology week	-	693	-

#### Kisan Mobile Advisory

No. of Farmers registered: Nil

#### Details of SMSs

Content Category	No. of Messages	No. of Farmers	Feed back of farmers if any
Crop Production	-	-	-
Crop Protection	-	-	-
Livestock & Fisheries Advisory	-	-	-
Weather Advisory	-	-	-
Market Information	-	-	-
Events Information	-	-	-
Input availability	-	-	-
Others (specify)	-	-	-
<b>Total</b>	-	-	-

### INTERVENTIONS ON DROUGHT MITIGATION

#### Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries
Gujarat	4	3085	4735

#### Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	2415	3630
Pulses	670	1105
Cereals	-	-
Vegetable crops	-	-
Tuber crops	-	-
<b>Total</b>	<b>3085</b>	<b>4735</b>



**Farmers-scientists interaction on livestock management: Nil**

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

**Animal health camps organised : Nil**

State	Number of camps	No.of animals	No.of farmers
<b>Total</b>			

**Seed distribution in drought hit states: Nil**

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

**Large scale adoption of resource conservation technologies :**

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Gujarat	Micro irrigation system (Drip irrigation)	23	23
<b>Total</b>		<b>23</b>	<b>23</b>

**Awareness campaign**

KVK	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers
	2	56	1	22	-	-	-	-	-	-	-	-
<b>Total</b>	<b>2</b>	<b>56</b>	<b>1</b>	<b>22</b>								

**3.5 Production and supply of Technological products:****SEED MATERIALS: NIL**

Sr. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
<b>OILSEEDS</b>	-	-	-	-	-
<b>CEREALS</b>	-	-	-	-	-

**SUMMARY**

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	OILSEEDS	-	-	-
2	CEREALS	-	-	-
	<b>TOTAL</b>	-	-	-

**PLANTING MATERIALS:**

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	-	-	-	-	-
SPICES	-	-	-	-	-
VEGETABLES	Brinjal	JGB 3	4000	-	133
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	4000	-	133
3	SPICES	-	-	-
4	FOREST SPECIES	-	-	-
5	ORNAMENTAL CROPS	-	-	-
6	PLANTATION CROPS	-	-	-
7	OTHERS	-	-	-
	<b>TOTAL</b>	-	-	-

**BIO PRODUCTS: NIL**

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

**SUMMARY**

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

**LIVESTOCK: NIL**

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
<b>Cattle</b>	-	-	-	-	-	-

**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	-	-	-	-	-
	<b>TOTAL</b>	-	-	-	-	-

**3.6. Literature Developed/Published**

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

Name of Newsletter	Number of issues of newsletter published by your KVK
Nil	Nil

**(B) Literature developed/published**

Type of Publication	Title	Author/Journal	No.
<b>Research Paper</b>	Empowerment of women through SHGs; persisting constraints and Sugestions	K. U. Chandravadia and others Paper presented in national seminar on farm women at JAU, Junagadh	1
<b>Popular article</b>	<i>Vermicompost-Khedut nu kalu sonu</i>	P. J. Gohil & R. K. Odedra	1*
	<i>Amba ni mkhya jivato nu sankalit niyantran</i>	R. B. Vadher & R. K. Odedra	1*
	<i>Mata nu dudh-balak mate shreshtha bal ahar</i>	Mrs. D. S. Thakar & R. K. Odedra	1*
	<i>Dainik Ahhar ma Kathod nu mahatva</i>	Mrs. D. S. Thakar, P. J. Gohil & R. K. Odedra	1*
	<i>Mahila ni swarojgari mate talim ni jaruriyat</i>	Mrs. D. S. Thakar, Dr. Kiranben U. Chandravadia & R. K. Odedra	1*
	<i>Badko mate purak poshak aahar</i>	Mrs. D. S. Thakar, Dr. Kiranben U. Chandravadia & R. K. Odedra	1*
<b>Extension literature - pamphlet</b>	KVK information card	-	5000

\* Sent for publication in Krishi Vigyan magazine

**(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):****Success Story/ Case study: 1****Higher production and profit from drip irrigated Brinjal with limited irrigation water**

**Name of Farmer : Kalubhai Khimabhai Odedra**  
**Village : Hamadpara Tal. Kutiyana, Dist.: Porbandar, Gujarat**  
**Education : 7 Std.**  
**Age : 39**

Shri Kalubhai Odedra from Hamadpara village is a very dynamic, progressive farmer and always eager to adopt new technologies in agriculture. He is in close contact with KVK scientists and actively participating in the different extension activities conducted by KVK.

During Rabi season 2012-13, under the guidance of KVK scientist, he had sown improved variety of Brinjal GJB-3 recently released by J.A.U., Junagadh. Due to very low rainfall during kharif 2012 (213 mm), he had not sufficient irrigation facilities for rabi crop.

Under this condition, he had been strongly recommended for drip irrigation by KVK scientists. Ultimately he successfully adopted drip irrigation in brinjal in 0.16 ha area (one vigha). He adopted fertilizer management and plant protection measures recommended by KVK scientist. Due to adoption of recommended practices and drip irrigation, cost of cultivation was restricted up to Rs. 22,000 only. He harvested extraordinary production of 7.65 tons with superior quality brinjal and earned Rs. 1,30,000. Thus he has set an ideal example for other farmers of the district by earning net profit of Rs. 1,08,000 from one vigha area under limited irrigation water.

### **Success Story/ Case study: 2**

#### **Additional income generated by adopting contingency planning**

**Name of Farmer** : Rambhai Karabhaibhai Dhokia  
**Village** : Choliyana Tal. Kutiyana, Dist.: Porbandar, Gujarat  
**Education** : 12 Std.  
**Age** : 50 years

Shri Ramjibhai Dhokia is a progressive farmer member of Scientific Advisory Committee of KVK, Khapat and frequently getting telephonic guidance from KVK scientists and disseminates the same information to the other farmers of the district.

During 2012-13, the rainfall was late and very low in the district. He got the information on implementation of contingency planning under this condition and crop and variety to be grown from KVK. The kharif crops were almost failed and scientists suggested him for semi rabi sesame (Purva-1). He accepted the suggestion and had sown semi rabi sesame variety Purva-1. He also inspired other two surrounding farmers for the same. They got the production of 625 kg/ha with profit of Rs. 48,000/ha, while the other rabi / semi rabi crops, farmers was failed to achieve its potential yield under this rainfall condition.

#### **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**" 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	Cumin/G.nut	Seed treatment with kerosene, harrowing after first irrigation	For good and early germination
2	Groundnut	Application of Lime in furrow	For the management of stem/collar rot in groundnut
3	Groundnut	Neem leaves used as covering material in storage Airtight plastic containers (Barrel) are used for storage of groundnut seed.	To Control of storage pest
4	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**
- In service 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:** conducted

### 3.12. Activities of Soil and Water Testing Laboratory:

Status of establishment of Lab :

1. Year of establishment : 2010-11

### Equipments have been purchased

2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	Physical balance	2	6616.00
2	EC Meter	1	9450.00
3	Flame photometer	1	44887.00
4	Hot plate	2	9450.00
5	Jheldal digestion & Distillation	1	47250.00
6	Oven	1	15215.00
7	pH Meter	1	7600.00
8	Shaker	1	36000.00
9	Spectrophotometer	1	39480.00
10	Refrigerator	1	19610.00
11	Water distillation still	1	157500.00
12	Chemical balance	1	45066.00
<b>Total</b>		<b>14</b>	<b>438124.00</b>

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

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	66	66	26	13200.00
Water Samples	41	41	26	2050.00
Plant Samples	-	-	-	-
Petiole Samples	-	-	-	-
<b>Total</b>	<b>107</b>	<b>107</b>	<b>52</b>	<b>15250.00</b>

## 4.0 IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./ha)	After (Rs./ha)
Groundnut Variety GG-20 with package of practices	521	68.8	53070	81934
Use of <i>Trichoderma</i> in Groundnut	668	30.8	46590	70884
Improved Variety of Cumin GC- 4 & IDM	578	65.2	99000	157768
Gram Improved Variety GG- 3	382	18.8	31720	45622

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)

#### Case: 1 Large scale adoption of micronutrient in groundnut

In Porbandar district, deficiency of micronutrient particularly of Zn and Fe was noticed in groundnut on the farmers' fields. Generally, farmers were not applying micronutrient like Zn & Fe in groundnut. So, KVK, Porbandar conducted the FLDs on INM in groundnut and demonstrated the use of micronutrient Grade IV (Foliar spray) to the farmers during 2012-13 & 2013-14. The results of FLDs showed that by use of micronutrient Grade IV increased the yield considerably. The technology was disseminated among the other farmers of the district through field days, training, telephonically and technology week on groundnut. By this sincere effort, approximately 2600 farmers from 30 villages of the district have used the micronutrient in groundnut.

#### Case: 2 Large scale adoption of *Trichoderma* in groundnut

Groundnut is being cultivated in about 80 % area of the total cultivable area in the district and out of this; GG 20 variety covered about 75% area. Though variety GG 20 has good yield and export potential, farmers were not happy to cultivate GG-20 due to its high susceptibility to stem rot, which is a major disease responsible for heavy economical loss to the farmers. with a view to mitigate the problem of stem rot, KVK, Porbandar has been conducting the FLDs on *Trichoderma* in groundnut since 2008 and demonstrated the use of *Trichoderma* to the farmers. The results of FLDs showed that *Trichoderma* remarkably decreased stem rot incidence and increased the groundnut yield. The technology was disseminated among the other farmers of the district through field days, training, method demonstrations, telephonic helpline and technology week on groundnut. The *Trichoderma harzianum* prepared by JAU as "Sawaj" brand was also made available at KVK, Porbandar every year for the ease of the farmers of the district. At present, about 5000 farmers of 95 villages of the district are using *Trichoderma* in groundnut and continue to harvest full potential yield of GG-20.

### 4.3 Details of impact analysis of KVK activities carried out during the reporting period

Impact analysis is in progress

## 5.0 LINKAGES

### 5.1 Functional linkage with different organizations

Sr. No.	Name of organizations	Nature of linkages
1	<b>State department of Agriculture</b>	Most of organizations are members of Scientific Advisory Committee of this KVK and have linkage with different mandatory
	District Agriculture Officer	
	ATMA	
	Deputy Director, FTC	

	Dy. Director of Agriculture (Extension)	activities conducting training programmes and demonstration on implements, Khedut Shibir, Kishan Gosthy, Field Day, FFS and Vocational Trainings, Sponsored trainings, Farmers scientist interactions and resource person etc.
	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 India	
5	DWDU, Porbandar	Dissemination of activities
6	Doordarshan Kendra	
7	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.)
SEED VILLAGE	RABI SUMMER 2013-14	Central Govt.	10,00,000.00
ATIC	APRIL 2013- MARCH 14	State Govt.	7,25,000.00

## 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 ATMA Governing body	-
2	Management Committee	Member in ATMA Management Committee	-
3	Farmers scientist interaction	Active participation	
4	Training programme	Resource person	Also have collaborative extension programmes
5	Trainings within district	Resource person	Conducted at KVK
6	FFS	Resource person	-

## 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

Sl. No.	Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	

**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.	Cost of inputs	Gross income	
Oilseeds									
Groundnut	20-30/6/2013	17-29/10/2013	8	GG-20	Breeder	130			
	27/6 to 1/7/2013	21/10 to 3/11/2013	2	GG-17	Breeder	30			
	27/6 to 1/7/2013	21/10 to 3/11/2013	1	GG-11	Breeder	8			

**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	

**6.5 Rainwater Harvesting**

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

Activities conducted				
No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)
2	12	-	238	24

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
11/9/13	Micro irrigation system-Use and maintenance	PF	1	20	-	20	-	-	-
17/9/13	Water harvesting and ground water recharge techniques	PF	1	16	-	16	2	-	2

**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:**

Accommodation available (No. of beds): **30**

Months	Title of the training course/Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2013	Production Technologies of Major kharif crops	20	60	-
<b>Total</b>	<b>1</b>	<b>20</b>	<b>60</b>	<b>-</b>
May 2013	-	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
June 2013	Value addition in Mango	25	75	-
<b>Total</b>	<b>1</b>	<b>25</b>	<b>75</b>	<b>-</b>
July 2013	Bio control of pest and diseases	22	66	-
	Promising technologies for fruit & vegetable crops	24	72	-



<b>Total</b>	<b>2</b>	<b>46</b>	<b>138</b>	-
August 2013	Preparation of bakery products	23	69	-
	Protected cultivation	30	90	-
	Hatchery management and cultivation of fresh water prawn	25	75	-
<b>Total</b>	<b>3</b>	<b>78</b>	<b>234</b>	-
September 2013	Integrated Nutrient management	15	45	-
	Water harvesting and ground water recharge techniques	16	48	-
	Micro irrigation system-Use and maintenance	20	60	-
	Nursery management for vegetable crops	20	60	-
	IPDM in kharif crops	16	48	-
	Integrated crop management (major crops)	24	72	-
<b>Total</b>	<b>6</b>	<b>111</b>	<b>333</b>	-
October 2013	-	-	-	-
<b>Total</b>	-	-	-	-
November 2013	Cultivation of spices and vegetables	19	57	-
	Fisheries status, conservation and orientation towards aquaculture practices	45	135	-
	Small scale processing and value addition	26	72	-
	Production of organic inputs	28	84	-
<b>Total</b>	<b>4</b>	<b>118</b>	<b>354</b>	-
December 2013	Nursery raising business	25	75	-
	Rice/ urad papad, khakhra and vadi making	22	66	-
	Advances in Production tech for rabi	29	87	-
	Identification of pest and diseases	26	78	-
	PHT & value addition	29	87	-
	Culinary preparation from groundnut	24	72	-
	Carp breeding, hatchery mgt & grow out culture	26	78	-
<b>Total</b>	<b>7</b>	<b>181</b>	<b>543</b>	-
January 2014	Self preparation of bio products	27	81	-
	Composting techniques and residue recycling.	26	78	-
	IPDM in crops under protected cultivation	28	84	-
	Improved implements and machinery in agriculture.	22	66	-
	Income generation activities for empowerment of rural Women	34	102	-
	Installation and maintenance of MISs	23	69	-
<b>Total</b>	<b>6</b>	<b>182</b>	<b>546</b>	-
February 2014	Sea weed Culture and Preparation of LSF	20	60	-
	Sea weed cultivation & preparation of LSF	20	60	-
	Hygienic milk production	24	72	-
<b>Total</b>	<b>3</b>	<b>64</b>	<b>192</b>	-
March 2014	Cutting, tailoring, embroidery and handicraft	26	52	-
<b>Total</b>	<b>1</b>	<b>26</b>	<b>52</b>	-
<b>Grand total</b>	<b>34</b>	<b>829</b>	<b>2461</b>	-

## 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 <sup>st</sup> April 2014
	Kharif 2013-14	Rabi 2013-14	Kharif 2013-14	Rabi 2013-14	
Inputs	NIL				
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 <sup>st</sup> April 2014
	Kharif 2013-14	Rabi 2013-14	Kharif 2013-14	Rabi 2013-14	
Inputs	NIL				
Extension activities					
TA/DA/POL etc.					
TOTAL					

**Note: The funds for FLDs on oilseed & pulses was not released**

**7.3 Utilization of funds under FLD on Cotton (Rs. In Lakhs) : NIL****7.4 Utilization of KVK funds during the year 2013-2014**

S.N	Items/Head	Sanctioned grant (Council's share)	Grant received (Council's share)	Expenditure (Councils share)	Variation		Reason for variation
					(+) Saving	(-) Excess	
<b>A. Recurring Contingencies Items.</b>							
1	Pay & Allowances	5,700,000	5,700,000	4,870,079	829,921		
2	Traveling Allowances	60,000	60,000	28,143	31,857		
3	<b>Contingencies</b>						
a.	Stationary, telephone, postage and other expenditure on office running, publication of newsletter and Library maintains (Purchase of News paper Magazines)	480,000	480,000	479987	13		
b.	POL, repair of vehicles, tractors and equipment						
c.	Meals/refreshment of trainees (ceiling up to Rs,40/- per day / trainees be maintained )						
d.	Training Materials (Posters, charts, demonstration materials including chemicals etc. required for conducting the training).						
e.	Frontline demonstration except oilseed and pulses	720,000	720,000	719962	38		
f.	On Farm testing (On need based, location specific and newly generated information in the major production system of the area.						
g.	Training of Extension functionaries						
h.	Maintenance of Building						
	<b>TOTAL CONTIGENCY</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>1,199,949</b>	<b>51</b>		
	<b>TOTAL-A</b>	<b>6,960,000</b>	<b>6,960,000</b>	<b>6,098,171</b>	<b>861,829</b>		
<b>B.Non -Recurring Contogencies Items</b>							
1	Equipment & Furniture	-	-	-	-	-	-
	a) Plant Health Diagnostic facility	-	-	-	-	-	-
2	Works (Implements)	-	-	-	-	-	-
3	Library (Purchase of assets like books journals)	-	-	-	-	-	-
4	Vehicles(Motorcycle)	-	-	-	-	-	-
	<b>TOTAL - B</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>GRANT TOTAL</b>	<b>6,960,000</b>	<b>6,960,000</b>	<b>6,098,171</b>	<b>861,829</b>		<b>-</b>

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 11 to March 2012	6,86,049	8,30,463	3,21,668	11,94,844
April 12 to March 2013	11,94,844	12,90,822	2,32,441	22,53,225
April 13 to March 2014	22,53,225	2,46,420	7,86,053	17,13,562

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

- (a) Administrative : Nil  
(b) Financial : Nil  
(c) Technical : Nil