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ANNUAL PROGRESS REPORT

(April 2015 to March2016)

&

ACTION PLAN (2016-2017)

To be presented

in

ANNUAL ZONAL WORKSHOP

On 2nd to 4th May 2016

PROGRAMME CO-ORDINATOR

KRISHI VIGYAN KENDRA

JUNAGADH AGRICULTURAL UNIVERSITY

KHAPAT- 360579

PORBANDAR (GUJARAT)

PROGRESS REPORT
(1st April 2014 to 31st March 2015)

1. GENERAL INFORMATION ABOUT THE KVK

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

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

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

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

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. K. D. Patel	-	09428014409	kdpatel@jau.in

1.4. Year of sanction: February, 2005

1.5. Staff Position (as on 1st April 2015)

Sr. No.	Sanctioned post	Name of the incumbent	Discipline	Pay Scale	Present Basic (Rs.)	Date of joining	Category
1	Programme Coordinator	Dr. K. D. Patel	Horticulture	37400-67000	23710	24-3-15	Gen.
2	Subject Matter Specialist	Dr. 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	D. S. Thakar	Home Science	15600-39100	15600	22-8-06	Gen.
6	Subject Matter Specialist	S. R. Thaker	Fisheries	15600-39100	15600	31-8-06	Gen.
7	Subject Matter Specialist	H. A. Patel	Animal Husbandry	15600-39100	15600	6-4-15	Gen.
8	Programme Assistant	Vacant	-	9300-34800	-	-	Gen.
9	Computer Programmer	J J. Naliyapara	-	9300-34800	10810	12-6-08	OBC
10	Farm Manager	V. M. Savaliya	-	9300-34800 13, 700 (fix)	13,7000	31-03-15	Gen.
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	36812Hours	Good
Bolero Jeep	2005	496000	2,15,8214 Km	Good after major repairing
Motor cycle	2010	47000	7265Km	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 intercultivator frame 86"	2008-09	37,500	Running
Samsung double door refrigerator	2008-09	17,650	Running
Electrolux grill microwave / oven	2008-09	9,580	Running
Panasonic LCD projector	2008-09	103,912	Running
Multi purpose groundnut cum wheat thresher	2008-09	114,000	Running
Cotton shredder	2008-09	242,000	Running
Solar street light	2008-09	28,000	Running
Solar lanterns	2008-09	4,800	Running
Solar cooker	2008-09	3,300	Running
Mobile seed grading unit	2008-09	1,685,000	Running
Decorticators	2008-09	95,850	Running
Winnowing fan	2008-09	8,500	Running
Chaff cutter	2008-09	30,188	Running
High tech sprayer pump	2008-09	1,850	Running
Battery operated sprayer pump	2008-09	4,940	Running

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

Sr. No.	Date	Number of Participants	Salient Recommendations	Action taken
1	23/02/2015	1 Dr. A. R. Pathak, Hon'ble Vice Chancellor, J.A.U., Junagadh 2 ShriVirambhaiKaravadra, President, TalukaPanchayat, Porbandar 3 Dr. A. M. Parakhia DEE, JAU, Junagadh 4 Dr. PramodMohnot, ADR, JAU, Junagadh 5 Shri D. B. Gajera, DAO, Porbandar 6 Shri D. B. Gajera I/c Deputy Director (Horti.), Porbandar 7 Shri J. L. Gohel Represenative Asst. Director of Fisheries, Porbandar 8 Shri A. D. Chavda Deputy Project Director (ATMA), Porbandar 9 Mrs. NaynabenYadav Training Officer, FTC, Porbandar 10 Shri C. J. Bhesdadiya, Porbandar District Milk Producer Cooperative Society, Sudama Dairy, Porbandar 11 Dr. Bhalu, SMS, KVK, JAU, Pipaliya (Dhoraji) Dist.: Rajkot 12 Shri L. R. Chavda Rep. of Asst. Research Scientist, CRS, JAU, Khapat 13 ShriKirankumarBalas Representative of Director, DWDU, Porbandar 14 Shri A. R. Jethva, Office of the District Information Officer, Porbandar 15 Shri R. K. Odedra, Programme Coordinator, KVK, JAU,	1. Trainings on Animal Husbandry should be increased 2. Dmonstrations of Banana ste, extract on Mango should be conducted 3. No. Of FLD farmers should be increased and FLDs on chick pea & NPV should be increased 4. An OFT on sickle cell anemia should be coducted if possible 5. FLDs should be conducted on LSFin groundnut.	1. The suggestion has been incorporated 2. Accepted and will be conducted 3. Accepted and will be incorporated in the action plan 4. The suggestion has been incorporated in the action plan 5. The suggestion has been incorporated in the action plan

		Khapat-Porbandar 16 ShriRamjibhaiKarabhaiDhokiya, At: Choliyana, Ta. Kutiyana, Dist. Porbandar 17 Smt. RekhabenRamdebhaiOdedra At: Khambhala, Ta. Ranavav, Dist. Porbandar 18 Smt. HiribenNagabhaiModhvadiya At: Sisli, Ta. & Dist. Porbandar 19 ShriRanabhaiRamabhaiRathod At: Gorsari, Ta. & Dist. Porbandar 20 ShriVijaybhaiSukabhaiBokhariya At: Bokhira, Ta. & Dist. Porbandar 21 Shri H. M. Odedra, Porbandar District Milk Producer Cooperative Society, Sudama Dairy, Porbandar 22 ShriKeshavbhaiNagabhaiModhvadia At: Khapat, Ta. & Dist., Porbandar 23 ShriBharatbhaiLaxmanbhaiBheda At: Baloch, Ta. Kutiyana, Dist. Porbandar 24 ShriVikrambhaiUkabhaiVala At: Bavdavadar, Ta. Kutiyana, Dist. Porbandar 25 ShriNagabhaiDevabhaiSundavadra, At: Degam, Ta. & Dist., Porbandar 26 ShriLaxmanbhaiKarabhaiModhavadia, At: Vadala, Ta. & Dist., Potbandar 27 Mrs. Pravinaben R. Savaniya At: Adityana Ta. Ranavav, Dist. Porbandar 28 Mrs. Hansaben R. Dhokia At: Choliyana, Ta. Kutiyana, Dist. Porbandar		

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	**Porbandar** district is located between 21° to 22° N latitude and 69° to 70° E longitude.**Khapat**- N 21° 40' 12" and E 69° 37' 14" **Soil:** medium black &silty loam with calcareous in nature **pH:** of the soil is ranging from 8.01 to 8.58 **Water:**Ecvalue up to 8.1 mm / cm **Average Rainfall:**668.mm **Temperature Range:**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 clayRainfall: <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	85390	109299	1280
2	Cotton	8905	4452	500
3	Wheat	34505	97496	2825
4	Cumin	26330	17309	650
5	Gram	21570	27609	1280
6	Green gram	11695	7894	675
7	Pearl millet	425	595	1400
8	Castor	3325	6982	2100
9	Forage crops	22310	546495	24500

2.5. Weather data: Rainfall during the year 2014

MONTH	Rainfall (mm)	Rainy days
Jan-14	-	-
Feb-14	-	-
Mar-14	-	-
Apr-14	-	-
May-14	-	-
Jun-14	39.0	2
July-14	125.8	9
Aug-14	298.9	13
Sep-14	166.2	6
Oct-14	15.6	1
Nov-14	-	-
Dec-14	-	-
Total	**645.5**	**31**

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	-		-
Marine	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	• IPM • Improved package of practices • IDM • Problematic soil • Poor quality water
2.	Ranavav	Cluster II	1. Amardad 2. Khambhala 3. Thoyana 4. Vadotra 5. Mokar	Groundnut Cotton Sorghum Wheat Cumin Pearl millet	• IPM • Improved package of practices • IDM • INM in Horticulture
3.	Kutiyana	Cluster III	1. Kansabad 2. Roghda 3. Kotada 4. Amar 5. Kadegi	Groundnut Cotton Castor Sorghum Wheat Cumin Gram	• IPM • Improved package of practices • IDM • Problematic soil

2.8 Priority thrust areas

Sr. No	Discipline	Thrust area
1	Crop production	• Improved package of practices • Improved varieties • Organic farming • INM
2	Horticulture	• Improved package of practices for different spices • PHT in fruits and vegetable • INM in orchards
3	Agriculture Engineering	• Efficient use of water&Ground water recharge • PHT and value addition • Renewable Energy
4	Plant Protection	• Integrated Pest and Diseases management • Storage pest Management • Biological control of Pest and Diseases
5	Home science	• Skill oriented activities ▪ Sewing and embroidery ▪ Handicrafts • Value addition ▪ Fruits and vegetable preservation ▪ Preparation of bakery products
6	Fisheries	• Sea weed cultivation • Fresh water aquaculture • Brackish water aquaculture

3. TECHNICAL ACHIEVEMENTS

3. A Details of target and achievements of mandatory activities by KVK during 2014-15

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
6	6	20	20	14	12	171	151

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	83	81	2490	2087	16	11	-	21153
Rural youth	7	7	210	177				
Extn. Functionaries	2	-	60	-				
Total	**92**	**88**	**2760**	**2264**	**16**	**11**	**-**	**21153**

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	Achievement	Target	Achievement
-	68	-	-

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	Groundnut	Improper management of white grub in groundnut	Management of white grub in groundnut	-	-	-	-	Pesticides
2	IDM	Cumin	Improper seed rate without treatment leads to poor germination	Effect of seed rate in maintenance of germination in cumin	-	-	-	-	Fungicide
3	MIS	Cumin	Low yield due to sowing method and over irrigation in cumin	Performance of drip irrigation with sowing method in cumin	-	-	-	-	-
4	INM	Sesame	Low yield and oil content in sesame	Effect of sulphur on yield of summer sesame	-	-	-	-	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
6	Value addition	Home Science	Spoilage in mango pickles	Effect of salt & oil on spoilage of mango pickles	-	-	-	Training	Mango & ingradients

3.1 Achievements on technologies assessed and refined

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

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

Pest Management										
Integrated Disease Management										
Resource conservation technology				2						2
Small Scale income generating enterprises						1				1
Balanced nutrition										
TOTAL	-	2	-	2	1	1	-	-		6

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

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

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

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

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

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

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

3 B. Details of On Farm Trial

A. Technology Assessment

On Farm Trial: 1

1. Title of on-farm trials

Management of white grub in groundnut

2. Problem diagnose

Improper management of white grub in groundnut. Farmers are using only costly chemical pesticides in higher doses indiscriminately.

Reasons for low yield of groundnut

- Heavy loss due to Improper management of onwhite grub in groundnut
- Use of higher doses of chemical pesticides
- Lack of awareness control measures

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:** Chloropyrihpos @ 4 lit./ha at the time of attack
2. **Recommended. Practice:** Seed treatment with chloropyriphos @ 25 ml/kg, Spraying the trees on bund with carbaryl @ 40 g/15 lit water
3. **Intervention:**Application of carbofuran3 G @ 40 kg/ha at the time of sowing, Spraying the trees on bund with carbaryl @ 40 g/10 lit 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)
- White grub population
- 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: Proper management prior to attack is very effective for white grub control

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
groundnut	Rainfed	Improper management of White grub	Management of white grub in groundnut	3	**Farmer's practice:**No seed treatment	White grub population	7	Yield as well as BC ration was increased due to reduced white grub population.	
					Reco. Practice: Seed treatment with Carbendazime @ 3g/kg seed	White grub population	1		
					Intervention: Seed treatment with *Trichoderma* @ 8 g/kg seed + *vitavax* (Carboxin) @ 3g/kg seed	White grub population	1		

Detail	Production (kg/ha)	Net Return (Rs./ha)	BC ratio
11	12	13	14
Farmer's practice	1500	31500	2.11
Recommended practice	2250	60800	3.08
Intervention	2375	65000	3.17

On Farm Trial: 2

1. Title of on-farm trials

Effect of seed rate in maintenance of germination in cumin.

2. Problem diagnose

Improper seed rate without treatment leads to poor germination.

Reasons for low yield of cumin

- Improper or late germination
- Disease incidence due to lack of seed treatment

Problem solutions:

- Proper seed rate with seed treatment

3. Details of technologies selected for assessment/refinement

Treatments:

Treatment 1 : 12-15 kg seed/ha

Treatment 2 : 12-15 kg seed/ha (6-8 hrs warm water soaking followed by shed drying and seed treatment with Mencozeb @ 3 gm/kg seed)

4. Source of technology

Recommended by Junagadh Agricultural University

5. Production system and thematic area

- Irrigated Production System
- Resource conservation

6. Performance of the Technology with performance indicators

- Germination (%)
- 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: Seed treatment with warm water & fungicide improves germination and ultimately yield of cumin

11. Results: <u>Awaited</u>

On Farm Trial: 3

1. Title of on-farm trials

Performance of drip irrigation with sowing method in cumin

2. Problem diagnose

Low yield due to sowing method and over irrigation in cumin.

Reasons for low yield of cumin

- Broad casting method of sowing
- Over irrigation leads to increase disease incidence

Problem solutions:

- Line sowing with drip irrigation

3. Details of technologies selected for assessment/refinement

Treatments:

1. Broad casting method without drip irrigation
2. Broad casting method with drip irrigation
3. Row sowing without drip irrigation
4. Row sowing with drip irrigation

4. Source of technology

Recommended by Junagadh Agricultural University

5. Production system and thematic area

- Irrigated Production System
- Resource conservation

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: Row sowing with drip irrigation improved germination and yield as compared to broadcasting without drip

11. Results: Awaited

On Farm Trial: 4

1. Title of on-farm trials

Effect of sulphur on yield of summer sesame

2. Problem diagnose

Low yield and oil content in sesame

Reasons for low yield of sesame

- Improper fertilizer management
- No use of sulphur nutrient

Problem solutions:

- Sulphur nutrition

3. Details of technologies selected for assessment/refinement

Treatments:

1. **Farmer's practice:** No sulphur application
2. **Recommended. Practice:** 20 kg S/ha as gypsum (100 kg)
3. **Intervention:** Application of wettable sulphur 80% G @ 20 kg S/ha

4. Source of technology

Recommended by Junagadh Agricultural University

5. Production system and thematic area

- Irrigated Production System
- Fertilizer 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: -

11. Results awaited

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) Organolaptic 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	-	10.78 %	16.6 %
4	Organolaptic test			
a	Taste/ sweetness	4	5	5
b	Texture	5	5.6	6.9
c	Consistency	4	6	7
d	Overall Acceptance	-	-	√

Results:

Sr. No.	Item	Sesame Mukhvas			Salted Groundnut			Sweet Potato			Sweet Corn		
	Observation	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 (%)	-	1.44	6.83	-	10.4	26.9	-	43.70	73.9	-	6.7	18.8
4	**Organolaptic Test**												
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:

1. 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

OFT – 6
Title: Effect of salt & oil on spoilage of mango pickles
Problem Definition: Spoilage in mango pickle
Technology Assessed: Prevention of spoilage in mango pickles

Objective:

1. To prevent spoilage in mango pickle
2. To increase self life of mango pickle
3. Cost saving

Treatments:

Common ingredients use for all the treatments:- Mango 1 kg, turmeric powder 5 gm, jaggary/sugar 600 gm, fenugreek 50 gm, mustard 30 gm, asafetida (hing) 5 gm, coriander 30 gm, funnel 30 gm, red chili powder 30 gm.

1. Salt 12% (120 gm) + Oil 800 ml/ kg mango **(General practices)**
2. Salt 15% (150 gm) + Oil 250 ml/ kg mango **(Recommended practices)**
3. Salt 20% (200 gm) + Oil 200 ml/ kg mango **(Refinement)**

No. of Replication: - 3 (Farm women)

Observations:-

1. Self life (days)
2. Colour
3. Texture
4. Cost

Results:

Technology Option	Self life (days)	Colour	Texture	Aroma	Cost saving (%)
General practices - Salt 12% (120 gm) + Oil 800 ml/ kg mango	180	Dark brown	Soft	Slight fungy aroma after monsoon	-
Recommended practices - Salt 15% (150 gm) + Oil 250 ml/ kg mango	180	Brown	Hard to soft	Good aroma	32.3
Refinement - Salt 20% (200 gm) + Oil 200 ml/ kg mango	180	Red brown	Hard to soft	Fresh aroma	35.4

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 2013-14 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	45	3000	1445
2	Sesame	Varietal Evaluation	Variety GT-2	Trainings, Field days FLDs & OFTs	18	1100	630
3	Pigeon pea	Varietal Evaluation	Variety GT 101	Trainings, Field days FLDs & OFTs	10	100	40
4	Green gram	Varietal Evaluation	Variety GC-4	Trainings, Field days FLDs & OFTs	35	1750	525
2	Groundnut	IDM	*Trichoderma*	Trainings, Field days FLDs & OFTs	135	6075	2500
3	Cotton	INM & IPM	INM with full package	Trainings, Field days & FLDs	20	675	325
4	Wheat	INM	INM (Biofertilizers)	Trainings, Field days & FLDs	10	400	175
5	Cumin	IDM	IDM	Trainings, & FLDs	17	135	20
6	Chick pea	Varietal Evaluation	Variety GC-3	Trainings, & FLDs	22	1800	1100
7	Lucerne	Varietal Evaluation	Variety Anand-2	Trainings, & FLDs	5	100	20
10	Agril. Eng.	Farm implement	Shredder	Trainings, & FLDs	10	340	-
11	Home Sci.	Renewable energy	Solar cooker	Trainings, & FLDs	20	115	-

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

a. Details of FLDs implemented during Rabi 2013-14

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	INM	INM	Rabi-2013	10	10	3	17	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-2013	Irrigated	Medium Black	Low	medium	high	Groundnut	20/11 to 15/12/2013	-	1011.4	39

Performance of FLD

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Farrmers	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	41.25	32.50	36.72	33.45	9.8	-	-

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
26300	28500	69768	63555	43468	35055	2.65

In addition to yield increment of 9.8%, additional income of Rs. 8413/ha was gained by Integrated Nutrient Management.

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	
2	Cumin	IDM	IDM	Rabi-2013	12	12	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					
Cumin	Rabi-13	Irrigated	Medium Black	Low	medium	high	Groundnut	21/11 - 02/12/2013	-	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
2	Cumin	IDM	GC-4	20	12	13.5	8.50	10.99	10.18	8.0	-	-

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
25800	27500	131880	122160	106080	94660	5.11

According to the farmer's feedback, the Integrated Disease Management is very cost effective and reduces the cost of cultivation which ultimately increases the income.

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 2013-14	8	8	2	22	24	-

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 2013-14	Rainfed	Medium Black	Low	medium	high	-	7-25/11/2013	12-27/2/2014	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	Gram	Varietal	GG-3	24	8	36.0	18.0	24.46	22.25	10.0	-	-

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
14500	16600	85610	77875	71110	61275	5.90

Improved variety of chickpea GG-3 increased the yield by 10% than local variety.

Other Crops:
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	Anand-2	Rabi 2013-14	5	5	-	11	11	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 2013-14	Irrigated	Medium Black	Low	medium	high	G. Nut	26-30/11/2013	-	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	Lucerne	Varietal	Anand-2	11	5	1080	913	816	825	10.7	-	-

Note: Yield approximation is based on 5 cuts as fodder.

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
71800	72900	182600	165000	110800	92100	2.54

The data estimated based on average of 5 cuts as fodder of improved variety of Lucerne (Anand-2) increased the yield by 10.7% with additional income of Rs. 18700.00 than local variety.

b. Details of FLDs implemented during 2014-15 (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. <u>Cereals:</u>

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	INM	INM	Rabi-2014	10	10	-	20	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-2014	Irrigated	Medium Black	Low	medium	high	Groundnut	12-25/11/14	-	645.5	31

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	Awaited					-	-

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
Awaited						

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	
2	Cumin	IDM	IDM	Rabi-2014	12	12	-	20	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					
Cumin	Rabi-14	Irrigated	Medium Black	Low	medium	high	Groundnut	20-29/11/14	-	645.5	31

Performance of FLD

Sr. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Cumin	IDM	GC-4	20	12	Awaited						

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
Awaited						

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	Groundnut	INM	INM	Kharif 2014	8	8	-	20	20	-
2	Gram	Varietal	GG-3	Rabi 2014-15	8	8	3	17	20	-
3	Green gram	Varietal	GM-4	Summer 2015	4	4	3	7	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 2014	Rainfed	Medium Black	Low	medium	high	Groundnut/ wheat/cumin	30/5 to 16/6/14	11-30/10/14	645.5	31
Gram	Rabi 2014-15	Rainfed	Medium Black	Low	medium	high	-	5-17/11/14	-	645.5	31
Green gram	Summer 2015	Irrigated	Medium Black	Low	medium	high		8/2 to 20/2/2015	-	645.5	31

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	37.50	12.50	23.40	20.17	16.05		
2	Gram	Varietal	GG-3	20	8	Awaited						
3	Green gram	Varietal	GM-4	10	4	Awaited						

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
25250	28760	81900	70595	56650	41835	3.24
Awaited						
Awaited						

d. 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 2014	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 14	Rainfed/irrigated	Medium Black	Low	medium	high	G. Nut/ Cotton	27/5 to 14/6/14	-	645.5	31

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	36.25	20.38	30.86	27.06	14.0	-	-

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
29500	31200	123420	108220	93920	77020	4.18

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	Anand-2	Rabi 2014-15	5	5	-	11	11	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 2014-15	Irrigated	Medium Black	Low	medium	high	G. Nut	27/11 to 2/12/14	-	645.5	31

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	Lucerne	Varietal	Anand-2	11	5	Awaited					-	-

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
Awaited						

e. 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-14	*Trichoderma*	Rainfed	23.16	21.32	8.59

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	Improved variety of Lucerne is better than the local variety
7	INM in wheat was better than farmers' practices

Farmers' reactions on specific technologies

Sr. No	Feed Back
1	An improved variety particularly of chick pea GG-3 is 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	IDM in cumin reduce the pesticides consumption and reduce the cost of cultivation
5	Use of *Trichoderma* 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	9	-	200	-
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		
Groundnut pod grader	Groundnut	1	5	Grading quality improved & cost reduced	Better quality grading with low cost	-	Cost per unit weigh is 1/3rd and better grading quality than Traditional practice	-

(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)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**** 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												
	Total		**1**	**10**	**10**													

(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)																	
Total																	

Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Pregnant women						
Adolescent Girl						
Other women	Solar cooker	1	5	Energy & cost saving	Detail is given below	
Children						
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	14 kg	128.00	7.0 Kg	64.0	7.0 kg.	64.00
Kerosene	2.5 lit	112.00	1.25 lit	56.25	1.25 lit.	55.75
LPG Cylinder	4.2 Kg	130.00	2.8 kg	87.0	1.4 kg	43.00

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									
Pod Grader	Groundnut	Grading	1	1	5	-	-	Cost per unit weigh is 1/3rd and better grading quality	--	-	-	-	-	-	-	

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Groundnut pod grader gives better quality grading
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 organized	Date	Number of participants	Remarks
1	Field days	-	-	-	-
2	Farmers Training	2	29/12/2014 23/1/2015	60	
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
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	1	15	0	15	3	0	3	18	0	18
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	2	42	0	42	4	0	4	46	0	46
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	1	19	0	19	4	0	4	23	0	23
Nursery raising	1	23	0	23	2	0	2	25	0	25
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	1	0	21	21	0	1	1	0	22	22
b) Fruits										
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	-	-	-	-	-	-	-	-	-	-
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-

e) Tuber crops	-	-	-	-	-	-	-	-	-	-
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
f) Spices										
Production and Management technology	1	24	0	24	5	0	5	29	0	29
Processing and value addition										
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	1	15	0	15	0	0	0	15	0	15
Integrated Nutrient Management	1	22	0	22	1	0	1	23	0	23
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	-	-	-	-	-	-	-	-	-	-
Soil and Water Testing	-	-	-	-	-	-	-	-	-	-
IV Livestock Production and Management										
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	-	-	-	-	-	-	-	-	-	-
Feed management	-	-	-	-	-	-	-	-	-	-
Production of quality animal products	1	0	20	20	0	5	5	0	25	25
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	-	-	-	-	-	-	-	-	-	-
Minimization of nutrient loss in processing	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	3	0	68	68	0	7	7	0	75	75
Income generation activities for empowerment of rural Women	1	0	17	17	0	4	4	0	21	21

Location specific drudgery reduction technologies	-	-	-	-	-	-	-	-	-	-
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	-	-	-	-	-	-	-	-	-	-
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	1	22	0	22	2	0	2	24	0	24
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	21	0	21	6	0	6	27	0	27
Small scale processing and value addition	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	1	0	18	18	0	2	2	0	20	20
VII Plant Protection										
Integrated Pest Management	2	21	23	44	6	0	6	27	23	50
Integrated Disease Management	2	39	0	39	6	0	6	45	0	45
Bio-control of pests and diseases	1	30	0	30	2	0	2	32	0	32
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management	1	31	0	31	0	0	0	31	0	31
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	1	0	20	20	0	1	1	0	21	21
Breeding and culture of ornamental fishes	1	0	22	22	0	0	0	0	22	22
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	1	28	0	28	0	0	0	28	0	28
Shrimp farming	-	-	-	-	-	-	-	-	-	-
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	-	-	-	-	-	-	-	-	-	-
IX Production of Inputs at site										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	1	16	2	18	8	0	8	24	2	26
Bio-fertilizer production	1	22	0	22	0	0	0	22	0	22
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	-	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
TOTAL	**28**	**390**	**211**	**601**	**49**	**20**	**69**	**439**	**231**	**670**
(B) RURAL YOUTH										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	1	20	5	25	1	0	1	21	5	26
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	1	0	21	21	0	4	4	0	25	25
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	25	0	25	2	0	2	27	0	27
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-
Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	18	18	0	5	5	0	23	23
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	1	0	21	21	0	4	4	0	25	25
Rural Crafts										
TOTAL	**5**	**45**	**65**	**110**	**3**	**13**	**16**	**48**	**78**	**126**
(C) Extension Personnel										
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**33**	**435**	**276**	**711**	**52**	**33**	**85**	**487**	**309**	**796**

B) OFF Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	-	-	-	-	-	-	-	-	-	-
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	1	0	25	25	0	1	1	0	26	26
Nursery management										
Integrated Crop Management	4	54	16	70	8	9	17	62	25	87
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	1	19	0	19	5	0	5	24	0	24
Nursery raising	-	-	-	-	-	-	-	-	-	-
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-
Protective cultivation (Green Houses, Shade Net etc.)	3	70	0	70	8		8	78	0	78
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	1	18	0	18	6	0	6	24	0	24
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	1	13	2	15	2		2	15	2	17
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-

Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
e) Tuber crops										
Production and Management technology	1	21	0	21	4	0	4	25	0	25
Processing and value addition	-	-	-	-	-	-	-	-	-	-
f) Spices										
Production and Management technology	1	0	25	25	0	0	0	0	25	25
Processing and value addition	-	-	-	-	-	-	-	-	-	-
g) Medicinal and Aromatic Plants	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management										
Soil fertility management										
Soil and Water Conservation	3	62	0	62	16	0	16	78	0	78
Integrated Nutrient Management	2	47	0	47	2	0	2	49	0	49
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	1	17	0	17	2	0	2	19	0	19
Soil and Water Testing	1	23	0	23	1	0	1	24	0	24
IV Livestock Production and Management										
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	1	24	0	24	2		2	26	0	26
Feed management	2	23	27	50	1	0	1	24	27	51
Production of quality animal products										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-
Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-

Designing and development for high nutrient efficiency diet	2	0	52	52	0	3	3	0	55	55
Minimization of nutrient loss in processing	1	0	29	29	0	3	3	0	32	32
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	2	0	57	57	0	8	8	0	65	65
Income generation activities for empowerment of rural Women	1	0	25	25	0	0	0	0	25	25
Location specific drudgery reduction technologies	1	0	28	28	0	3	3	0	31	31
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	3	0	61	61	0	25	25	0	86	86
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	1	21	1	22	10	2	12	31	3	34
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	15	0	15	3	0	3	18	0	18
Small scale processing and value addition	1	27	0	27	3		3	30	0	30
Post Harvest Technology	1	0	14	14	7	7	14	7	21	28
VII Plant Protection										
Integrated Pest Management	4	89	5	94	11		11	100	5	105
Integrated Disease Management	3	74	0	74	8	1	9	82	1	83
Bio-control of pests and diseases	1	21	0	21	5	0	5	26	0	26
Production of bio control agents and bio pesticides										
VIII Fisheries										
Integrated fish farming	3	85	0	85	0	0	0	85	0	85
Carp breeding and hatchery management	-	-	-	-	-	-	-	-	-	-
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	2	28	21	49	2	2	4	30	23	53
Breeding and culture of ornamental fishes	1	28	9	37	0	0	0	28	9	37
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	1	27	0	27	0	0	0	27	0	27

Shrimp farming	2	62	0	62	4	0	4	66	0	66
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	1	29	0	29	0	0	0	29	0	29
IX Production of Inputs at site										
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	-	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
TOTAL	**55**	**897**	**397**	**1294**	**110**	**64**	**174**	**1007**	**461**	**1468**
(B) RURAL YOUTH										
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	-	-	-	-	-	-	-	-	-	-
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
(C) Extension Personnel										
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-

Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**55**	**897**	**397**	**1294**	**110**	**64**	**174**	**1007**	**461**	**1468**

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
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	-	-	-	-	-	-	-	-	-	-
Resource Conservation Technologies	1	15	0	15	3	0	3	18	0	18
Cropping Systems	-	-	-	-	-	-	-	-	-	-
Crop Diversification	-	-	-	-	-	-	-	-	-	-
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Water management	-	-	-	-	-	-	-	-	-	-
Seed production	1	0	25	25	0	1	1	0	26	26
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	6	96	16	112	12	9	21	108	25	133
Fodder production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	-	-	-	-	-	-	-	-	-	-
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	-	-	-	-	-	-	-	-	-	-
Off-season vegetables	2	38	0	38	9	0	9	47	0	47
Nursery raising	1	23	0	23	2	0	2	25	0	25
Exotic vegetables like Broccoli	-	-	-	-	-	-	-	-	-	-
Export potential vegetables	-	-	-	-	-	-	-	-	-	-
Grading and standardization	-	-	-	-	-	-	-	-	-	-

Protective cultivation (Green Houses, Shade Net etc.)	4	70	21	91	8	1	9	78	22	100
b) Fruits										
Training and Pruning	-	-	-	-	-	-	-	-	-	-
Layout and Management of Orchards	1	18	0	18	6	0	6	24	0	24
Cultivation of Fruit	-	-	-	-	-	-	-	-	-	-
Management of young plants/orchards	1	13	2	15	2	0	2	15	2	17
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Export potential fruits	-	-	-	-	-	-	-	-	-	-
Micro irrigation systems of orchards	-	-	-	-	-	-	-	-	-	-
Plant propagation techniques	-	-	-	-	-	-	-	-	-	-
c) Ornamental Plants										
Nursery Management	-	-	-	-	-	-	-	-	-	-
Management of potted plants	-	-	-	-	-	-	-	-	-	-
Export potential of ornamental plants	-	-	-	-	-	-	-	-	-	-
Propagation techniques of Ornamental Plants	-	-	-	-	-	-	-	-	-	-
d) Plantation crops										
Production and Management technology	-	-	-	-	-	-	-	-	-	-
Processing and value addition	-	-	-	-	-	-	-	-	-	-
e) Tuber crops										
Production and Management technology	1	21	0	21	4	0	4	25	0	25
Processing and value addition	-	-	-	-	-	-	-	-	-	-
f) Spices										
Production and Management technology	2	24	25	49	5	0	5	29	25	54
Processing and value addition	-	-	-	-	-	-	-	-	-	-

g) Medicinal and Aromatic Plants										
Nursery management	-	-	-	-	-	-	-	-	-	-
Production and management technology	-	-	-	-	-	-	-	-	-	-
Post harvest technology and value addition	-	-	-	-	-	-	-	-	-	-
III Soil Health and Fertility Management										
Soil fertility management	-	-	-	-	-	-	-	-	-	-
Soil and Water Conservation	4	77	0	77	16	0	16	93	0	93
Integrated Nutrient Management	3	69	0	69	3	0	3	72	0	72
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Management of Problematic soils	-	-	-	-	-	-	-	-	-	-
Micro nutrient deficiency in crops	-	-	-	-	-	-	-	-	-	-
Nutrient Use Efficiency	1	17	0	17	2	0	2	19	0	19
Soil and Water Testing	1	23	0	23	1	0	1	24	0	24
IV Livestock Production and Management										
Dairy Management	-	-	-	-	-	-	-	-	-	-
Poultry Management	-	-	-	-	-	-	-	-	-	-
Piggery Management	-	-	-	-	-	-	-	-	-	-
Rabbit Management	-	-	-	-	-	-	-	-	-	-
Disease Management	1	24	0	24	2	0	2	26	0	26
Feed management	2	23	27	50	1	0	1	24	27	51
Production of quality animal products	1	0	20	20	0	5	5	0	25	25
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	-	-	-	-	-	-	-	-	-	-

Design and development of low/minimum cost diet	-	-	-	-	-	-	-	-	-	-
Designing and development for high nutrient efficiency diet	2	0	52	52	0	3	3	0	55	55
Minimization of nutrient loss in processing	1	0	29	29	0	3	3	0	32	32
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
Storage loss minimization techniques	-	-	-	-	-	-	-	-	-	-
Value addition	5	0	125	125	0	15	15	0	140	140
Income generation activities for empowerment of rural Women	2	0	42	42	0	4	4	0	46	46
Location specific drudgery reduction technologies	1	0	28	28	0	3	3	0	31	31
Rural Crafts	-	-	-	-	-	-	-	-	-	-
Women and child care	3	0	61	61	0	25	25	0	86	86
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	2	43	1	44	12	2	14	55	3	58
Use of Plastics in farming practices	-	-	-	-	-	-	-	-	-	-
Production of small tools and implements	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	2	36	0	36	9	0	9	45	0	45
Small scale processing and value addition	1	27	0	27	3	0	3	30	0	30
Post Harvest Technology	2	0	32	32	7	9	16	7	41	48
VII Plant Protection										
Integrated Pest Management	6	110	28	138	17	0	17	127	28	155
Integrated Disease Management	5	113	0	113	14	1	15	127	1	128
Bio-control of	2	51	0	51	7	0	7	58	0	58

pests and diseases										
Production of bio control agents and bio pesticides	-	-	-	-	-	-	-	-	-	-
VIII Fisheries										
Integrated fish farming	3	85	0	85	0	0	0	85	0	85
Carp breeding and hatchery management	1	31	0	31	0	0	0	31	0	31
Carp fry and fingerling rearing	-	-	-	-	-	-	-	-	-	-
Composite fish culture	-	-	-	-	-	-	-	-	-	-
Hatchery management and culture of freshwater prawn	3	28	41	69	2	3	5	30	44	74
Breeding and culture of ornamental fishes	2	28	31	59	0	0	0	28	31	59
Portable plastic carp hatchery	-	-	-	-	-	-	-	-	-	-
Pen culture of fish and prawn	2	55	0	55	0	0	0	55	0	55
Shrimp farming	2	62	0	62	4	0	4	66	0	66
Edible oyster farming	-	-	-	-	-	-	-	-	-	-
Pearl culture	-	-	-	-	-	-	-	-	-	-
Fish processing and value addition	1	29	0	29	0	0	0	29	0	29
IX Production of Inputs at site										
Seed Production	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Bio-agents production	-	-	-	-	-	-	-	-	-	-
Bio-pesticides production	1	16	2	18	8	0	8	24	2	26
Bio-fertilizer production	1	22	0	22	0	0	0	22	0	22
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	-	-	-	-	-	-	-	-	-	-
X Capacity Building and Group Dynamics										
Leadership development	-	-	-	-	-	-	-	-	-	-
Group dynamics	-	-	-	-	-	-	-	-	-	-
Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Mobilization of social capital	-	-	-	-	-	-	-	-	-	-
Entrepreneurial development of farmers/youths	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
XI Agro-forestry	-	-	-	-	-	-	-	-	-	-
Production technologies	-	-	-	-	-	-	-	-	-	-
Nursery management	-	-	-	-	-	-	-	-	-	-
Integrated Farming Systems	-	-	-	-	-	-	-	-	-	-
TOTAL	83	1287	608	1895	159	84	243	1446	692	2138
(B) RURAL YOUTH										
Mushroom Production	-	-	-	-	-	-	-	-	-	-
Bee-keeping	-	-	-	-	-	-	-	-	-	-
Integrated farming	-	-	-	-	-	-	-	-	-	-
Seed production	-	-	-	-	-	-	-	-	-	-
Production of organic inputs	1	20	5	25	1	0	1	21	5	26
Integrated Farming	-	-	-	-	-	-	-	-	-	-
Planting material production	-	-	-	-	-	-	-	-	-	-
Vermi-culture	-	-	-	-	-	-	-	-	-	-
Sericulture	-	-	-	-	-	-	-	-	-	-
Protected cultivation of vegetable crops	1	0	21	21	0	4	4	0	25	25
Commercial fruit production	-	-	-	-	-	-	-	-	-	-
Repair and maintenance of farm machinery and implements	1	25	0	25	2	0	2	27	0	27
Nursery Management of Horticulture crops	-	-	-	-	-	-	-	-	-	-

Training and pruning of orchards	-	-	-	-	-	-	-	-	-	-
Value addition	1	0	18	18	0	5	5	0	23	23
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	1	0	21	21	0	4	4	0	25	25
Rural Crafts	-	-	-	-	-	-	-	-	-	-
TOTAL	5	45	65	110	3	13	16	48	78	126
(C) Extension Personnel										
Productivity enhancement in field crops	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Nutrient management	-	-	-	-	-	-	-	-	-	-
Rejuvenation of old orchards	-	-	-	-	-	-	-	-	-	-
Protected cultivation technology	-	-	-	-	-	-	-	-	-	-

Formation and Management of SHGs	-	-	-	-	-	-	-	-	-	-
Group Dynamics and farmers organization	-	-	-	-	-	-	-	-	-	-
Information networking among farmers	-	-	-	-	-	-	-	-	-	-
Capacity building for ICT application	-	-	-	-	-	-	-	-	-	-
Care and maintenance of farm machinery and implements	-	-	-	-	-	-	-	-	-	-
WTO and IPR issues	-	-	-	-	-	-	-	-	-	-
Management in farm animals	-	-	-	-	-	-	-	-	-	-
Livestock feed and fodder production	-	-	-	-	-	-	-	-	-	-
Household food security	-	-	-	-	-	-	-	-	-	-
Women and Child care	-	-	-	-	-	-	-	-	-	-
Low cost and nutrient efficient diet designing	-	-	-	-	-	-	-	-	-	-
Production and use of organic inputs	-	-	-	-	-	-	-	-	-	-
Gender mainstreaming through SHGs	-	-	-	-	-	-	-	-	-	-
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**88**	**1332**	**673**	**2005**	**162**	**97**	**259**	**1494**	**770**	**2264**

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 else where
					Male	Female	Total	Type of units	Number of units	Number of persons employed	
Agril. Engg.	19/5/2014	Installation and maintenance of MIS	MIS	1	27	0	27	-	-	-	-
Vegetable	15-16/9/2014	Plug nursery raising technique for business	Nursery raising	1	0	25	25	-	-	-	-
bio products	28/12/2014	Self preparation of bio products	Production of organic input	1	24	2	26	-	-	-	-
Vernicomposting	28/10/2014	Production of organic inputs	Planting material production	1	21	5	26	-	-	-	-
-	23-24/9/2014	Rice/ uradpapad, khakhra and vadi making	Income generation activities	1	0	23	23	-	-	-	-
Seaweed	19/3/2015	Sea weed Culture and Preparation of LSF	seaweed	1	22	0	22	-	-	-	-
-	12/3/2015	Cutting, tailoring, embroidery and handicraft	Rural crafts	1	0	25	25	-	-	-	-

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	17/6/2014	Cotton production technology	Crop production	ICM	1	Farmers	1	56	15	71	9	0	9	65	15	80	ATMA	-
2	11/4/2014	INM in kharif crops	Crop production	INM	1	Farmers	1	74	0	74	5	0	5	79	0	79	ATMA	-
3	18/6/2014	Nursery raising in vegetables	Horticulture	Nursery raising	1	F/FW	1	70	35	105	0	5	5	70	40	110	ATMA	-
4	22/9/2014	Cultivation of spices	Horticulture	ICM	1	FW	1	0	15	15	0	0	0	0	15	15	ATMA	-
5	19/6/2014	Micro irrigation systems	Agril. Engg.	Installation and maintenance of micro irrigation systems	1	F/FW	1	85	25	110	1	0	1	86	25	111	ATMA	-
6	11/3/2014	PHT & Value addition	Agril. Engg.	Value addition	1	F/FW	1	57	23	80	2	0	2	59	23	82	ATMA	-
7	26/9/2014	Kitchen & nutritional gardening	Home Science	Kitchen gardening	1	FW/F	1	58	92	150	2	0	2	60	95	152	ATMA	-
8	25/9/2014	Balance nutrition	Home Science	Balance nutrition	1	FW/F	1	51	79	130	16	13	29	67	92	159	ATMA	-
9	18/6/2014	IPM in kharif crops	Plant protection	IPM	1	F/FW	1	30	27	57	1	0	1	31	27	58	ATMA	-
10	26/8/2014	Management of white grub in groundnut	Plant protection	IPM	1	F/FW	1	20	42	62	4	0	4	24	42	66	ATMA	-
11	28/8/2014	Fresh water aquaculture	Fisheries	-	1	Fisherman	1	52	14	66	0	2	2	52	16	68	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	9	135	20	155	35	10	45	0	0	0	170	30	200
Kisan Mela	0	0	0	0	0	0	0	0	0	0	0	0	0
Kisan Ghosthi	9	210	0	210	38	0	38	0	0	0	248	0	248
Exhibition	5	2560	1700	4260	88	51	139	5	2	7	2653	1753	4406
Film Show	32	738	250	988	81	13	94	0	0	0	819	263	1082
Method Demonstrations	0	0	0	0	0	0	0	0	0	0	0	0	0
Farmers Seminar	0	0	0	0	0	0	0	0	0	0	0	0	0
Workshop	0	0	0	0	0	0	0	0	0	0	0	0	0
Group meetings	8	190	0	190	24	0	24	0	0	0	214	0	214
Lectures delivered as resource persons	92	4252	982	5234	36	31	67	4	1	5	4292	1014	5306
Newspaper coverage	0	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	10	4365	1012	5377	233	34	267	0	0	0	4598	1046	5644
Advisory Services	1863	1632	231	1863	0	0	0	0	0	0	1632	231	1863
Scientific visit to farmers field	72	110	0	110	16	0	16	0	0	0	126	0	126
Farmers visit to KVK	1	1115	405	1520	345	17	362	0	0	0	1460	422	1882
Diagnostic visits	78	112	13	125	51	6	57	0	0	0	163	19	182
Exposure visits	0	0	0	0	0	0	0	0	0	0	0	0	0
Ex-trainees Sammelan	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0
MahilaMandals Conveners meetings	0	0	0	0	0	0	0	0	0	0	0	0	0
Celebration of important days ()	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2179	15419	4613	20032	947	162	1109	9	3	12	16375	4778	21153

Details of the "Technology Week" Celebration on Groundnut during 22-27Sept. 2014

Date and theme Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
Date :22nd to27th September 2014 **Theme:** Integrated Crop Management (Groundnut)	Gosthies	6	353	Problems in groundnut cultivation
	Lectures organized	36	478	Improved technologies of groundnut
	Exhibition	1	603	Improved farm implements
	Film show	6	353	Integrated nutrient management in groundnut
	Fair	-	-	-
	Farm Visit	6	603	Improved farm implements, Breeder Seed production plots, green house, vermicompost unit, crop cafetaria
	Diagnostic Practical	6	478	Identification of pest and diseases in groundnut
	Distribution of Literature (No.)	3	603	
	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		603	-

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)	-	-	-	-
Total	-	-	-	-

INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries
Gujarat	2	1025	2035

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	950	1500
Pulses	75	535
Cereals	-	-
Vegetable crops	-	-
Tuber crops	-	-
Total	**1025**	**2035**

Farmers-scientists interaction on livestock management: Nil

State	Livestock components	Number of interactions	No.of participants
Total			

Animal health camps organised: Nil

State	Number of camps	No.of animals	No.of farmers
Total			

Seed distribution in drought hit states: Nil

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total				

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)	18	18
Total		**18**	**18**

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	58	1	19	-	-	-	-	`-	-	-	-
Total	**2**	**58**	**1**	**19**	**-**				**-**			

3.5 Production and supply of Technological products:

SEED MATERIALS: NIL

Sr. No.	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
OILSEEDS	Groundnut	GG-20 GG-17	37 13	-	-
CEREALS	-	-	-	-	-

SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	OILSEEDS	68	-	-
2	CEREALS	-	-	-
TOTAL		-	-	-

PLANTING MATERIALS:

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS	-	-	-	-	-
SPICES	-	-	-	-	-
VEGETABLES	-	-	-	-	-
FOREST SPECIES	-	-	-	-	-
ORNAMENTAL CROPS	-	-	-	-	-
PLANTATION CROPS	-	-	-	-	-
Others (specify)	-	-	-	-	-

SUMMARY

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

BIO PRODUCTS: NIL

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

SUMMARY

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

LIVESTOCK: NIL

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

SUMMARY

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

3.6. Literature Developed/Published

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

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

(B) Literature developed/published

Type of Publication	Title	Author	Journal/ magazine
Technical Article	*Mahilaona khetima mahenat ane kasht ghatadvana upayo*	Dr. K. U. Chandravadiya, Mrs. D. S. Thakar, H. R Vadar, R.K. Odedra	Ek Prayas
	Kuposhan – Ek jatil samasya	Dipti S. Thakar, Dr. K. U. Chandravadiya, R. K. Odedra	Krushi Vigyan
	Vermicompost-*Khedut nu kalu sonu*	P. J. Gohil & R. K. Odedra	Ek Prayas*
	Amba ni mkhya jivato nu sankalit niyantran	R. B. Vadher & R. K. Odedra	Ek Prayas*
	Mata nu dudh-balak mate shreshtha bal ahar	Mrs. D. S. Thakar & R. K. Odedra	Ek Prayas*
	Dainik Ahhar ma Kathod nu mahatva	Mrs. D. S. Thakar, P. J. Gohil & R. K. Odedra	Ek Prayas*
	Mahila ni swarojgari mate talim ni jaruriyat	Mrs. D. S. Thakar, Dr. Kiranben U. Chandravadia & R. K. Odedra	Ek Prayas*
	Badko mate purak poshak aahar	Mrs. D. S. Thakar, Dr. Kiranben U. Chandravadia & R. K. Odedra	EkPrayas*

* Sent for publication in KrishiVigyan 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

Self employment by professional training course.

Name of Farmer : Mrs.Vejiben Devanandbhai Karangia
Village : Gokaran, Tal. Kutiyana, Dist.: Porbandar, Gujarat
Education : 7 Std.
Age : 45 years

Mrs. Vejiben is a very enthusiastic and hard working woman. She is in very close contact with KVK since 2009 and actively participating in all the activities organised by KVK, She was also a member of SAC of KVK, Khapat during 2010-2012. She is in very close contact with home scientist of this KVK.

During year 2014, a two month's professional training course on Beauty Parlor was organised at Gokaran village by sincere efforts of home scientist of KVK in collaboration with Women Economic Development Corporation, Veraval branch.

Vejiben and other 24 women of her village were participated in the course. After participating in the course, Vejiben was highly inspired by to start the beauty parlor business to earn extra income. She has initiated to arrange for infrastructure and material required for the business and very near future her beauty parlor will be strated. She is also inspiring the other trainee women to start the business.

Success Story/ Case study: 2

Additional income through pickles prepared by solar cooker

Name of Farmer : Pravinaben Ramjibhai Savaniya
Village : Adityana Tal. Ranavav, Dist.: Porbandar, Gujarat
Education : 12 Std.
Age : 39 years

Mrs. Pravinaben is in regular contact of this KVK and actively participating in the training programmes and other activities of the KVK. She is very interested in trying new things and also eager to earn extra income by different activities at home. She was also allotted an OFT on solar cooker on mango *murabba*.

After conducting OFT on solar cooker, she was inspired by the benefits and cost effectiveness of solar cooker and started to make mango *murabba* in solar cooker and different mango pickles at home traditionally. She made these products in bulk and sold it to others. She has sold 10 kg pickles and 4 kg *murabba* and earned profit of approximately Rs. 2000.

In addition, she also runs tailoring class and doing tailoring herself and earns Rs. 2000 per month. Her daughter is running a beauty parlor and getting Rs. 2000 to 4000 in marriage season. Thus Mrs. Pravinaben has set an example for the other women of the district and inspired them to do such type of activities.

Success Story/ Case study: 3

Cultivation of cumin by drip irrigation

Name of Farmer : Nagabhai Devabhai Sundavadra
Village : Degam Tal. & Dist.: Porbandar, Gujarat
Education : 5 Std.
Age : 32 years

Nagabhai is a young and very innovative farmer having keen interest in adopting latest agricultural technologies, new varieties and new crops. He is a regular participant of all the activities of KVK and having personal and regular contact through mobile with KVK scientists. He always doing his cultivation practices like sowing time, fertilizer

management, irrigation, plant protection measures etc. as per the guidelines given by the KVK scientists.

He was inspired to cultivate cumin crop using drip irrigation by KVK scientist and he has sown cumin with drip irrigation in 0.5 ha area in his farm.

As per his experience of adopting drip irrigation in cumin, he could save 80% water, 50% insecticides and fungicides, 50% fertilizers and total cost of weeding. He has given fertilizer and pesticides through drip irrigation. As per his calculation, he will harvest approximately 1500 kg. cumin per hectare with minimum cost of cultivation. Moreover, he is adopting latest agricultural technologies like use of biofertilizers, micronutrients, biopesticides, bioagents etc. advocated by the KVK scientists in all the crops which he is cultivating in all the seasons.

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	Groundnut	Application of Lime in furrow	For the management of stem/collar rot in groundnut
2	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

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
	Total	**14**	**438124.00**

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples	76	76	60	15200.00
Water Samples	32	32	27	1600.00
Plant Samples	-	-	-	-
Petiole Samples	-	-	-	-
Total	**108**	**108**	**87**	**16800.00**

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)
Use of *Trichoderma* in Groundnut	572	35.6	49650	72385
Improved Variety of Cumin GC- 4 & IDM	498	62.5	89000	140550
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& cotton

In Porbandar district, deficiency of micronutrient particularly of Zn, Fe, Mn, Cu was noticed in groundnut& cotton on the farmers' fields. Generally, farmers were not applying micronutrient in groundnut& cotton. So, KVK, Porbandar conducted the FLDs on INM in groundnut& cotton and demonstrated the use of micronutrient Grade IV (Foliar spray) in groundnut and Grade V (soil application) in cotton to the farmers during 2013-14. The results of FLDs showed that by use of micronutrient Grade IV& V increased the yield of groundnut as well as cotton considerably. The technology was disseminated among the other farmers of the district through field days, training, telephonically and technology week. By this sincere effort, approximately 3000 farmers from 34 villages of the district have used the micronutrient in groundnut and cotton.

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 to 2014and 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 6500 farmers of 100 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	**State department of Agriculture**	Most of organizations are members of Scientific Advisory Committee of this KVK and have linkage with different mandatory activities conducting training programmes and demonstration on implements, Khedut Shibir, Kishan Gosthy, Field Day, FFS and Vocational Trainings, Sponsored trainings, Farmers scientist interactions and resource person etc.
	District Agriculture Officer	
	ATMA	
	Deputy Director, FTC	
	Dy. Director of Agriculture (Extension)	
	Dy. Director of Horticulture	
	Dy. Director of Animal husbandry	
	Asstt. Director of Fisheries	
2	Asstt. Conservator of Forest	
3	Taluka purchase and sales Union (Porbandar, Kutiyana, Ranavav)	
4	State Bank of India	
5	DWDU, Porbandar	
6	Doordarshan Kendra	Dissemination of activities
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.)
ATIC	APRIL 2014- MARCH 15	State Govt.	10,58,000.00

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	19-22/7/2014	7/11 to 8/12/2014	10	GG-20	Breeder	37		5,55,000	
	19-22/7/2014	22/11 to 6/12/2014	2	GG-17	Breeder	13		1,96,000	

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
28/5/2014	Water harvesting and ground water recharge technique	PF	1	15	0	15	0	0	0
18/9/2014	Micro irrigation systems- Use &mantainence	PF	1	22	0	22	2	0	2
28/4/2014	Ground water recharge techniques	PF	1	21	0	21	2	0	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)
May 2014	Water harvesting and ground water recharge technique	14	14	-
Total	**1**	**14**	**14**	**-**
June 2014	Value addition in mango	31	62	-
	Nursery management in vegetable crops	25	50	
	Biological control of Pest and diseases	32	64	
Total	**3**	**88**	**176**	**-**
July 2014	Integrated nutrient management	20	60	-
	Protected cultivation (Green house, Net house, Tunnels)	20	60	
Total	**2**	**40**	**120**	-
August 2014	Students of Agriculture college, JAU for RAWEP programme	14	98	-
	IPDM in major Kharif crops	23	46	
	Micro irrigation systems use and maintenance	21	42	-
Total	**3**	**58**	**186**	-
September 2013	Preparation of bakery products	25	50	-
	Integrated Nutrient Management	25	50	
	Plug nursery raising technique for business	25	50	
	Micro irrigation systems- Use & mantainence	24	48	
	Rice/Urad papad, Khakhara & Vadi making	23	46	-
	IPDM in major kharif crops	25	50	-
Total	**6**	**147**	**297**	-
October 2014	Production of organic inputs	21	42	-
Total	**1**	**21**	**42**	-
November 2014	Cultivation of spices and vegetables	21	42	-
Total	**1**	**21**	**42**	-
December 2014	Recent advances in production technology of Rabi crops	22	44	-
	Identification of pest and diseases and its control	23	46	-
	Post harvest Technologies and value addition	20	40	-
	Value addition in food grains	25	50	-
	Mariculture Practices	28	56	-
Total	**5**	**118**	**236**	-
January 2015	Dr. T. P. Verma and Team of NBSS& LUP regional centre, Udaipur for soil resource mapping	5	90	-
	Conservation agriculture and crop residue management	18	36	-
	IPDM in crops under protected cultivation	22	44	-
	Use and maintenance of improved Farm implements and machinery.	19	38	-
Total	**4**	**64**	**208**	-
February 2015	Storage pest management in food grains	25	50	-
	Sea weed cultivation & preparation of LSF	22	44	-
	Income generation activities for empowerment of rural women	21	42	-

Total	**3**	**68**	**136**	-
March 2015	Advance technology for chilli & creepers	23	46	-
	Use & mantainence of improved farm implements	27	54	
	Cutting tailoring embroidery & handicrafts	25	50	
	Seaweed culture & Preparation of LSF	22	44	
	Educational tour from Agri. Polytech., SDAU, Jagudan	31	31	
Total	**1**	**128**	**225**	-
Grand total	**30**	**767**	**1682**	-

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 1st April 2015
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
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 1st April 2014
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
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 2014-2015

S.N	Items/Head	Sanctioned grant (Council's share	Grant received (Council's share)	Expenditure (Councils share)	Variation (+) Saving (-) Excess	Reason for variation
A. Recurring Contigencies Items.						
1	Pay & Allowances	5,800,000	5,800,000	5,139,524	660,476	
2	Traveling Allowances	50,000	50,000	17,134	32,866	
3	**Contingencies**					
a.	Stationary, telephone, postage and other expenditure on office running, publication of newsletter and Library maintains (Purchase of News paper Magazines)	1,60,000	1,60,000	2,57,715	-97,715	
b.	POL, repair of vehicles, tractors and equipment					
c.	Meals/refreshment of trainees (ceiling up to Rs,40/- per day / trainees be maintained)	2,40,000	2,40,000	5,90,156	-3,50,156	
d.	Training Materials (Posters, charts, demonstration materials including chemicals etc. required for conducting the training).					
e.	Frontline demonstration except oilseed and pulses					
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					
	TOTAL CONTIGENCY	**4,00,000**	**4,00,000**	**8,47,871**	**-4,47,871**	
	TOTAL-A	**62,50,000**	**62,50,000**	**60,04,527**	**2,45,471**	
B.Non -Recurring Contogencies Items						
1	Equipment & Furniture	-	-	-	-	-
	a) Plant Health Diagnostic facility	-	-	-	-	-
2	Works (Imlementshed)	-	-	-	-	-
3	Library (Purchase of assets like books journals	-	-	-	-	-
4	Vehicles(Motorcylcle)	-	-	-	-	-
	TOTAL - B	-	-	-	-	-
	GRANT TOTAL	**62,50,000**	**62,50,000**	**60,04,527**	**2,45,471**	-

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
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	17,13,592
April 14 to March 2015	17,13,592	20,08,496	1,93,104	35,28,984

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