ANNUAL REPORT – 2013-14
(01.04.2013 TO 31.03.2014)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
Krishi Vigyan Kendra, Junagadh Agricultural University, Pipalia (Dhoraji) Dist: Rajkot, Gujarat-360410	Office 02824-292584	FAX -	kvkpipalia@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 (Gujarat)	0285-2672080	0285-2672653	www.jau.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr.N.B.Jadav (I/C)	0285-2653009	09924012649	nb_jadav@yahoo.com

1.4. Year of sanction: 16, March-2012

1.5. Staff Position (as on 31st March, 2014)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Vacant	-	-	-	-	-	-	-
2	Subject Matter Specialist	Dr. N. B. Jadav (Incharge PC)	SMS	Ext.Edn.	15600 39100	26590	18-08-06	Temp.	OBC
3	Subject Matter Specialist	Dr.V.B.Bhalu	SMS	Agronomy	15600-39100	27810	15-9-12	Temp.	Other
4	Subject Matter Specialist	Vacant	-	Pl.Prot.	-	-	-	-	-
5	Subject Matter Specialist	Vacant	-	AH	-	-	-	-	
6	Subject Matter Specialist	Vacant	-	Agri. Eng.	-	-	-	-	-
7	Subject Matter Specialist	Dr.V.M.Bhatt	-	HS	-	-	-	-	-
8	Programme Assistant	R.G.Panseriya	Prog. Asstt.	Com. Operater	9300-34800	10810	31-12-2013	01-01-13 Pool at IT)	Other
9	Computer Programmer	Vacant	Prog. Asstt.	-	-		-	-	
10	Farm Manager	Vacant	Prog. Asstt.	-	-		-	-	-
11	Accountant / Superintendent	Vacant	Sr. Clerk	-	-		-	-	-
12	Stenographer	K.R. Yadav	Sr.Clerk	Steno.	5200-20200	5300	6-2-2009	5200-20200	OBC
13	Driver	Vacant	Driver	-	-		-	-	-
14	Driver	Vacant	Driver	-	-		-	-	-
15	Supporting staff	Vacant	Peon	-	-		-		--
16	Supporting staff	Vacant	Peon	-	-		-		-

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	-
2.	Under Demonstration Units	-
3.	Under Crops	4.35
4.	Orchard/Agro-forestry	-
5.	Others (specify)	15.65

1.7. Infrastructural Development:

A) Buildings

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	-	-	-	-	-	-	
2.	Farmers Hostel	-	-	-	-	-	-	
3.	Staff Quarters (6)	-	-	-	-	-	-	
4.	Demonstration Units (2)	-	-	-	--	-	-	
5	Fencing	-	-	-	-	-	-	
6	Rain Water harvesting system	-	-	-		-	-	
7	Threshing floor	-	-	-	-	-	-	
8	Farm godown	-	-	-	-	-	-	

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep (Bolero)	2013	661107	3542	Working

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Mahindra Tractor	2013	565000	Working
Cultivator (9 tine)	2013	19000	Working
Blade Harrow	2013	11500	Working

1.8. A). Details SAC meeting conducted on 31-12-2014

Sl. No.	Name and Designation of Participants	Salient Recommendations	Action taken
1.	1. Dr.N.C.Patel Hon. Vice chancellor JAU, Junagadh 2. Dr.J.B.Mishra, Director, DGR, Ivanagar 3. Dr. I.U.Dhruj, ADR, JAU, Junagadh	➢ To increase numbers of farmers per training (i.e. 25 to 50). ➢ KVK targhadia will carried out off campus	The suggestion has been incorporated in action plan

	4. Dr.H.B.Gardharia ADE, DEE, JAU, Junagadh 5. Dr.K.N.Akabari, RS (DFRS)JAU, Targhadia 6. Shri. B.H. Agatha, DAO, District Panchayat,Rajkot 7. Shri. L.R. Sadiya, Project Director, ATMA, Rajkot 8. Dr.H.D. Kansagara Dy.DAH District Panchayat,Rajkot 9. Dr. G. R. Sharma, Principal, Polytechnic in Agri. Engg., Targhadia 10. Dr. S.K. Tiwari, NHRDF, Rajkot 11. Shri Devesh Parmar, DDM, NABARD, Rajkot 12. Dr. M.D. Pethani, Assistant Manager, Rajkot Dairy, Rajkot 13. Shaumeen Ahmed, TE, Office of Project Director, DWDU, Rajkot 14. Shri K.V. Chavda All India Radio, Rajkot 15. Dr. B.B.Kabaria, PC, KVK, Targhadia, Dist. Rajkot 16. Shri. Parsottambhai K. Senjalia, Progressive farmers Shardharpur, Ta: Jetpur Dist:Rajkot 17. Shri Lalitbhai Kanjbhai Parmar Progressive farmers Pipalia, Ta: Dhoraji Dist:Rajkot 18. Shri Gopalbhai C. Viradiya Progressive farmers Rayadi, Ta:Jam kandorana Dist: Rajkot 19. Shri Ashokbhai G. Poshiya Progressive farmers Rayadi, Ta: Jam Kandorana Dist: Rajkot 20. Dr. K. L. Raghvani, PC, KVK, Jamnagar 21. S.B.Sharma, NHRDF, Rajkot 22. Dr. J. N. Nariya, PC, KVK, Nana Kanthasar 23. Dr. V. B. Bhalu, SMS, KVK,Pilalia, Dist. Rajkot 24. Dr.V.N. Patel Research Scientist (DF) JAU, Targhadia 25. Dr.M.S. Gajera RS (DF)JAU Targhadia 26. Dr. M.D. Thesiya Veterinary Officer, Rajkot 27. Vegada Shital B. MDT, DWDU, Rajkot 28. Naresh M Boricha MDT (Agri.) DWDU, Rajkot 29. Dr. N.B.Jadav, PC, KVK, Pipalia	training programme also in KVK pipalia operational area. ➢ Changes made in OFT of white grub treatment (i.e. intervention). ➢ Awareness regarding protective cultivation carried out among farmers of adopted villages and accordingly training should be carried out. .	

**** Attach a copy of SAC proceedings along with list of participants***

2. DETAILS OF DISTRICT (2013-14)

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

S. No	Farming system/enterprise
1	Groundnut-Wheat / Cumin, Garlic, Cotton-Summer Groundnut /Pulse crop/Sesame
2	Live stock
3	Farm waste management specially cotton stalk
4	Fruit and vegetable preservation
5	Value addition in Groundnut and wheat

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

S. No	Agro-climatic Zone	Characteristics
Zone – VI	North Saurashtra	The influence area of North Saurashtra Agroclimatic Zone is spread among five districts (35.2 lakh Ha). Out of total area 73.40 per cent area falls under arid and semi-arid region. The soils of this zone are shallow to moderately deep. The soils of Rajkot districtis medium blackand low in their availability of nitrogen while medium phosphorus and high in available postash. Monsoon commences usually by the end of June and withdraws by middle of September. Average annual rainfall of districts is 1141.2 mm.
Zone-VII	South Saurashtra	The influence area of South Saurashtra Agroclimatic Zone is spread among four districts. (Part of Rajkot, Bhavnagar, Amreli and whole district of Junagadh). Type of soil is shallow medium black calcareous soils. Soil are medium to high in nitrogen content, phosphorus low and potash high. Average annual rainfall of the zone is 625-750 mm.

Agro – Ecological situation in the District

Sr. No.	Agro Ecological Situation	Characteristics	Taluka covered	Remarks
1	Situation No. 2	Medium Black Soil with 500-600 mm Rainfall	Gondal, Jamkandorna	North Saurashtra Zone, Zone-VI
2	Situation No.4	Shallow Black Soil with 500-600 mm Rainfall	Lodhika, Kotada sangani	
3	-	Shallow medium black soil with 620-750 mm Rainfall	Jetpur, Dhoraji, Upleta,	South Saurashtra Zone, Zone-VII

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Clay to clay loam	Medium black calcareous soil	-
2	Sandy clay loam to clayey	Well drained soil with rapid permeability	-
3	Sandy to sandy 10 cm calcareous	Well drained soils	-

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1	Groundnut	160995	59246	368
2	Sesamum	1470	607	413
3	Castor	5199	11178	2150

4	Cotton	155268	319387	2057
5	Wheat	70350	295470	4200
6	Pearl millet	131	224	1708
7	Green gram	870	480	552
8	Coriander	137	193	1411
9	Cumin	6835	5270	771
10	Garlic	6590	33655	5107
11	Chickpea	3670	4518	1231

2.5. Weather data

Sr. No.	Meteorological week	Rainfall (mm)*	No of Rainy days *	Remarks
1	23	107	2	
2	24	267	5	
3	25	4	1	
4	26	70	5	
5	27	45	5	
6	28	114	5	
7	29	52	6	
8	30	86	6	
9	31	85	4	
10	32	31	3	
11	33	34	2	
12	34	0	0	
13	35	0	0	
14	36	0	0	
15	37	41	1	
16	38	114	3	
17	39	310	2	
18	40	35	2	
19	41	5	1	
Total		**1400**	**53**	

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

Category	Population	Production	Productivity
Cattle			
Cow	452	3326.90	
Buffalo	362	5284.70	
Sheep	263.40	266.81 (Production of wool)	
Goats	197	231.24	
Pigs	1		
Crossbred			
Indigenous			
Rabbits			
Poultry			(Production of eggs in Lakh no.)
Hens	7.8	3.92	
Desi	13.4	32.52	
Improved			
Ducks			
Turkey and others			

2.6 Details of Operational area / Villages (2013-14)

Sl. No	Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Dhoraji	Bhola, Parabadi, Fareni, Vadodar	Groundnut, Cotton, Sesamum, Wheat, Cumin, Chickpea, Garlic and onion. Enterprise are dairy business, vermi composting,	Heavy infestation of sucking pest in cotton –Stem rot disease in groundnut- Sesamum wilt- Less area under horticultural crops	- IPM and INM in major crops - Motivate the farmers for horticulture crop - To create awareness for value addition - Populirization of MIS
2	Jetpur	Thana galol, Arab timbadi, Sardharpur, Sankali			
3	Jamkadorana	Taravada, Hariyasan, Raidi, Boria			
4	Upleta	Mekha timbi, Ishara, Dhank, Varjag Zalia			

2.7 Priority/thrust areas

Crop/Enterprise	Thrust area
Groundnut, Sesamum etc	Increasing the productivity of major crops by adopting recommended technologies and to create awareness of value additon
Cotton	Motivating cotton growers to adopt IPM and INM practices for requcing the cost of production
Farm waste	Recycling of farm waste through composting, vermicompost, green manuring, etc.
Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques
Farm Women	Farm women empowerment by training in value addition, handi crafts, and small scale enterprises
Horticulture	Post harvest technology in fruit and vegetable, INM in orchard

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2013-14

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
--Nil-	--Nil--	--Nil-	--Nil--	10	8	105	90

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	30	27	900	701	200	181	1000	660
Rural youth	5	2	150	60				
Extn. Functionaries	-	-	-	-	-	--	-	-
Total	35	29	1050	761	200	181	1000	660

Seed Production (Qtl.)		Planting material (Nos.)	
5		6	
Target	**Achievement**	**Target**	**Achievement**
Udad 10	11	-	-
Wheat 70	78		-
Chick pea 40	40	-	-

3.B. Abstract of interventions undertaken

S. 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.
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	--	-

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	Oil seeds	Pulses	Commercial Crops	Vege tables	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	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	-	-	-	-	-
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-

A.2. Abstract of the number of technologies **refined*** 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	-	-	-	-	-	-	-	-	-	-
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

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

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	-	-	-	-	-	-	-	-

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

A. Technology Assessment

Trial 1

1) Title : -
2) Problem diagnose/defined : -
3) Details of technologies selected for assessment /refinement :
4) Source of technology : -
5) Production system thematic area : -
6) Thematic area : -
7) Performance of the Technology with performance indicators : -
8) Final recommendation for micro level situation : -
9) Constraints identified and feedback for research : Mention the specific constraints and feedback
10) Process of farmers participation and their reaction : Briefly mention the extent, level and process of farmers participation in planning, execution, monitoring, evaluation of the trial and their reaction towards the performance, efficacy, adoptability etc. of the improved technology assessed/refined

11). Results of On Farm Trials

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

**** No. of farmers***

Technology Assessed	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
11	12	13	14
-	-	-	-

Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

****** Give details of the technology assessed or refined and farmer's practice***

B. Technology Refinement

Trial 1

1. Title : -

2. Problem diagnose/defined : -

3. Details of technologies selected for assessment/refinement: -

4. Source of technology : -

5. Production system thematic area : -

6. Thematic area : -

7. Performance of the Technology with performance indicators : -

8. Final recommendation for micro level situation : -

9. Constraints identified and feedback for research : Mention the specific constraints and feedback

10. Process of farmers participation and their reaction : -

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology refined	Parameters	Data on the parameter	Results of refinement	Feedback from the farmer	Justifi cation for refinement
1	2	3	4	5	6	7	8	9	10	11
-	-	-	-	-	-	-	-	-	-	-

**** No. of farmers***

Technology Refined	*Production per unit	Net Return (Profit) in Rs. / unit	BC Ratio
12	13	14	15
1. 40 kg N + 30 kg P2O5 - Farmers Practice**			

Field crops – kg/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

****** Give details of the technology assessed or refined and farmer's practi***

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
-	-	-	-	-	-	-	-
-	-	-	-	-	-		-

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

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Pro.	Actual	SC/ ST	Others	T	
	Oilseeds									
1	Groundnut	IPM	IPM	*Kharif* 2013-14	15	15	4	16	20	-
2	Groundnut*	IDM	Trichoderma	*Kharif 2013-14*	4	4	2	8	10	
3	Sesame	IPM	IPM	*Summer 2014*	5	5	2	8	10	-
4	Summer Groundnut	Verital	GJG-31	*Summer 2014*	5	5	0	10	10	
	Pulse									
5	Chickpea	Varital	GG-3	Rabi 2013-14	4	4	2	8	10	
	Cereals									
6	Wheat	Varital	GW-366	Rabi - 2013-14	5	5	3	7	1	
	Spice and Others									
7	Cumin	Varital	GC-4	*Rabi 2013-14*	4	4	2	8	10	
8	Cotton	IPM	IPM	*Kharif 2013-14*	4	4	2	8	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					
Oilseeds											
Groundnut	*Kharif*	Rainfed	MB	M	M	H	Cotton	15th to 25th June	15 to 30 Oct	1400	53
Groundnut*	*Kharif*	Rainfed	MB	M	M	H	Wheat	15th to 25th June	15 to 30 Oct	1400	53
Sesame	*Summer*	Irrigated				H	Cotton	25 Jan to 15 Feb	-	-	-
Summer G'nut	*Summer*	Irrigated	MB	M	M	H	Groundnut	25 Jan to 15 Feb	-	-	-
Pulse						H					
Chick pea	*Rabi*	*Irrigated*	MB	M	M	H	G'nut	1 Nov to 20 Nov	15 Mar to 15 April	-	-
Cereals						H					
Wheat	*Rabi*	*Irrigated*	MB	M	M	H	G'nut	1 Nov to 20 Nov	15 Mar to 15 April		
Spice & Other						H					
Cumin	*Kharif*	Irrigated	MB	M	M	H	G'nut	1 Nov to 20 Nov	1 Mar to 15 Mar		
Cotton	*Kharif*	Rainfed	MB	M	M	H	cotton	15th to 25th June	Dec to Feb	1400	53

Performance of Frontline Demonstrations

Sl. No.	Crop	Technology Demo.	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
	Oilseeds											
1	Groundnut	IPM	GG-20	20	15	24.5	18.25	21.37	18.9	13.10	Yield	Yield
2	Groudnut*	IDM	Trichoderma	10	4	23.25	18.3	20.77	19	9.34	Yield	Yield
3	Sesame	IPM	G. Til-2	10	5	Result awaited						
4	Summer Groundnut	Variety	-	10	5							
	Pulse											
5	Chick pea	Variety	GG-3	10	5	24	21	22.5	19.75	13.92	Yield	Yield
	Cereals											
6	Wheat	Variety	GW-366	10	5	56.25	45	50.62	46.22	9.53	Yield	Yield
	Spices & Other											
7	Cotton	IPM	Bt.	10	4	37.5	28.75	33.12	28.43	16.51	Yield	Yield
8	Cumin	Variety	GC-4	10	4	10	7.5	8.75	8.05	8.70	Yield	Yield

*Component demonstration

Economic Impact (Continuation of previous table)

Crop	Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio
	Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
	14	15	16	17	18	19	20
Oilseeds							
Groundnut	42425	40141	85480	75600	43055	35459	2.01
G'nut (Component)	43789	41110	83080	76000	39291	34890	1.90
Sesame	Result awaited						
Summer Groundnut							
Pulse							
Chick pea	25100	24600	61875	51562	36775	26962	2.47
Cereals							
Wheat	30600	29460	80992	68992	50392	39532	2.65
Spices & Other							
Cotton	52698	49900	165600	142150	112902	92250	3.14
Cumin	21642	23650	89651	88324	68009	64674	4.14

NB: Attach few good action photographs with title at the back with pencil

Analytical Review of component demonstrations (details of each component for rainfed / irrigatedsituations to be given separately for each season).

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Groundnut	Kharif	IPM	Rainfed	21.375	18.9	13.10
Cotton	Kharif	IPM	Rainfed	33.12	28.43	16.51
Groundnut*	Kharif	Trichoderma	Rainfed	20.77	19	9.34
Chick pea	Rabi	Seed/Variety	Irrigated	22.5	19.75	13.92
Wheat	Rabi	Seed/Variety	Irrigated	50.62	46.22	9.53
Cumin	Rabi	Seed/Variety	Irrigated	8.75	8.05	8.70
Sesame	Summer	Seed/Variety	-	-	-	-
S. Groundnut	Summer	Seed/Variety				

Technical Feedback on the demonstrated technologies

Sl. No.	Farmers' Feed Back
1	To increase production farmers use recently developed certified varieties of different crops
2	To reduce production cost, proper use of fertilizer, pesticides, irrigation as per recommendation
3	Using trichoderma regularly for groundnut growers reduce stem rot.

Farmers' reactions on specific technologies

Sl. No.	Farmers' Reaction
1	Application of Trichoderma is vary useful for minimizing the stem rot disease in groundnut
2	Wheat variety GW-366 is high yielding variety but poor grain quality
3	Reddening in cotton
4	Heavy infestation of thrips in crop like Garlic, Onion, Cotton, Groundnut etc
5	Heavy infestation of mealy bug observed in cotton, groundnut etc
6	White grub problem in groundnut
7	Wilting in chilly cotton and water melon

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	3		67	
2	Farmers Training	2		45	
3	Media coverage	-	-	-	
4	Training for extension functionaries	-	-	-	

3.3 Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit) :

A) ON Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	1	26	0	26	2	0	2	28	0	28
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Water management	1	22	0	22	3	0	3	25	0	25
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	2	38	0	38	4	0	4	42	0	42
Fodder production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
II Horticulture										
a) Vegetable Crops										

Production of low volume and high value crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	1	23	0	23	0	0	0	23	0	23
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
c) Ornamental Plants										
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0

e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
III Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Soil and Water Conservation				0			0	0	0	0
Integrated Nutrient Management	1	24	0	24	0	0	0	24	0	24
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Soil and Water Testing				0			0	0	0	0
IV Livestock Production and Management										
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease				0			0	0	0	0

Management										
Feed management				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Income generation activities for empowerment of rural Women				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems				0			0	0	0	0
Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery				0			0	0	0	0

and implements										
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
VII Plant Protection										
Integrated Pest Management	2	42	0	42	7		7	49	0	49
Integrated Disease Management	1	22	0	22	4		4	26	0	26
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
IX Production of Inputs at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0

Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development				0			0	0	0	0
Group dynamics				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths	1	22	0	22	4		4	26	0	26
WTO and IPR issues				0			0	0	0	0
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
TOTAL	10	219	0	219	24	0	24	243	0	243
(B) RURAL YOUTH										
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Planting material				0			0	0	0	0

production										
Vermi-culture	1	26	0	26	4		4	30	0	30
Sericulture				0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Value addition				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Para vets				0			0	0	0	0
Para extension workers				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0

Rural Crafts				0			0	0	0	0
TOTAL	1	26	0	26	4	0	4	30	0	30
(C) Extension Personnel										
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
Grand Total	11	245	0	245	28	0	28	273	0	273

B) OFF Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	2	48	4	52	2	0	2	50	4	54
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Water management	1	32	0	32	4		4	36	0	36
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	3	72	7	79	5	0	5	77	7	84
Fodder production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0

c) Ornamental Plants										
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
III Soil Health and Fertility Management										
Soil fertility management	1	38	0	38	2		2	40	0	40
Soil and Water Conservation				0			0	0	0	0
Integrated Nutrient Management	1			0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency	1	28	3	31	2		2	30	3	33
Soil and Water Testing				0			0	0	0	0

IV Livestock Production and Management										
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed management				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition				0			0	0	0	0
Income generation activities for empowerment of rural Women				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	1	24	2	26	2		2	26	2	28

Use of Plastics in farming practices				0			0	0	0	0
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
VII Plant Protection										
Integrated Pest Management	2	38	4	42	4		4	42	4	46
Integrated Disease Management	1	22	0	22	2		2	24	0	24
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides				0			0	0	0	0
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management				0			0	0	0	0
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
IX Production of Inputs at site										
Seed Production	1	24	2	26	2		2	26	2	28
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer				0			0	0	0	0

production										
Vermi-compost production	1	29	0	29	4		4	33	0	33
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development				0			0	0	0	0
Group dynamics	1	22	0	22	0	0	0	22	0	22
Formation and Management of SHGs	1	24	0	24	0	0	0	24	0	24
Mobilization of social capital				0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
TOTAL	17	401	22	423	29	0	29	430	22	452
(B) RURAL YOUTH										
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Sericulture				0			0	0	0	0
Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Repair and				0			0	0	0	0

maintenance of farm machinery and implements										
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Value addition				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Para vets				0			0	0	0	0
Para extension workers				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology	1	32	0	32	4		4	36	0	36
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
TOTAL	1	32	0	32	4	0	4	36	0	36
(C) Extension Personnel										
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and				0			0	0	0	0

farmers organization										
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
	18	433	22	455	33	0	33	466	22	488

C) Consolidated table (ON and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	3	74	4	78	4	0	4	78	4	82
Resource Conservation Technologies	0	0	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Water management	2	54	0	54	7	0	7	61	0	61
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	5	110	7	117	9	0	9	119	7	126
Fodder production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0

Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	1	23	0	23	0	0	0	23	0	23
b) Fruits										
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants										
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
d) Plantation crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
e) Tuber crops										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
f) Spices										
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0

Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management										
Soil fertility management	1	38	0	38	2	0	2	40	0	40
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	2	24	0	24	0	0	0	24	0	24
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	1	28	3	31	2	0	2	30	3	33
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
IV Livestock Production and Management										
Dairy Management	0	0	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0

Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0	0	0
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	1	24	2	26	2	0	2	26	2	28
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
VII Plant Protection										
Integrated Pest Management	4	80	4	84	11	0	11	91	4	95
Integrated Disease Management	2	44	0	44	6	0	6	50	0	50
Bio-control of pests and diseases	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
VIII Fisheries										
Integrated fish farming	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0
IX Production of Inputs at site										
Seed Production	1	24	2	26	2	0	2	26	2	28
Planting material production	0	0	0	0	0	0	0	0	0	0

Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	1	29	0	29	4	0	4	33	0	33
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development	0	0	0	0	0	0	0	0	0	0
Group dynamics	1	22	0	22	0	0	0	22	0	22
Formation and Management of SHGs	1	24	0	24	0	0	0	24	0	24
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	1	22	0	22	4	0	4	26	0	26
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
XI Agro-forestry										
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
TOTAL	27	620	22	642	53	0	53	673	22	695
(B) RURAL YOUTH										
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	1	26	0	26	4	0	4	30	0	30
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and	0	0	0	0	0	0	0	0	0	0

implements										
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	1	32	0	32	4	0	4	36	0	36
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
TOTAL	2	58	0	58	8	0	8	66	0	66
(C) Extension Personnel										
Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0
	29	678	22	700	61	0	61	739	22	761

(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	
-	-	-	-	-	-	-	-	-	-	-	-

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

Sl. No.	Date	Title	Discipline	Dura-tion	Total No. of participants									Sponsoring Agency
					Other			SC/ ST			Total			
					M	F	T	M	F	T	M	F	T	
1	2-12-13 to 4-12-13	Crop Production	Agron	3	24	0	24	6	0	6	30	0	30	FTC, Rajkot
2	9-12-13 to 11-12-13	Plant protection	Agron	3	24	0	24	2	0	2	26	0	26	FTC Rajkot
3	5-12-13	Crop producton	Sol.sci	1	36	7	43	4	3	7	40	10	50	ATMA
4	5-12-13	Crop production in major Rabi crops	Pl.Prot	1	33	4	37	6	0	6	39	4	43	ATMA
5	4-12-13	Crop production	Pl.Prot	1	42	0	42	0	0	0	42	0	42	ATMA
6	13-8-13	Crop Production	Pl.Prot	1	33	4	37	3	0	3	36	4	40	ATMA
7	22-8-13	Plant protection	Pl.Prot	1	22	4	26	2	0	2	24	4	28	ATMA
8	23-8-13	Insect pest mang. in kharif crop	Pl.Prot	1	37	11	41	0	0	0	37	11	48	ATMA
9	29-8-13	Precaution in plant protection for kharif crops	Pl.Prot	1	34	6	40	46	10	56	80	16	96	ATMA

3.4. Extension Activities (including activities of FLD programmes)

Sl No	Nature of Extension Activity	Purpose/ topic and Date	No. of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				M	F	T	M	F	T	M	F	T	M	F	T
1.	Field Day	13/9/13	1	24	4	28	2	0	2	0	0	0	26	4	30
2.	Field Day	8/10/13	1	22	2	24	0	0	0	0	0	0	22	2	24
3.	Field day	15/1/14	1	27	4	31	2	0	2	0	0	0	29	4	33
	Total		3	73	10	83	4	0	4	0	0	0	77	10	87
4.	Kisan Mela		-	-	-	-	-	-	-	-	-	-	-	-	-
	Total		-	-	-	-	-	-	-	-	-	-	-	-	-
5	Kisan Ghosthi	20/6/13	1	26	2	28	0	0	0	0	0	0	26	2	28
		15/10/13	1	32	3	35	4	0	4	0	0	0	36	3	39
	Total	-	2	58	5	63	4	0	4	0	0	0	62	5	67
6	Exhibition	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Film Show	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Method Demonstrations	Dec-13	1	26	4	30	0	0	0	0	0	0	26	4	30
9	Farmers Seminar	17/7/13	1	25	3	28	3	0	3	0	0	0	28	3	31
		24/5/13	1	22	2	24	3	0	3	0	0	0	25	2	27
	Total	-	2	47	5	52	6	0	6	0	0	0	53	5	58
10	Workshop	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Group meetings	7/6/13	1	24	0	24	2	0	2	0	0	0	26	0	26
		8/7/13	1	28	2	30	0	0	0	0	0	0	28	2	30
		17/8/13	1	18	0	18	2	0	2	0	0	0	20	0	20
		5/10/13	1	26	2	28	0	0	0	0	0	0	26	2	28
		27/11/13	1	32	2	34	2	0	2	0	0	0	34	2	36
	Total		5	128	6	134	6	0	6	0	0	0	134	6	140
12	Lectures delivered as resource persons	April to March	9	189	17	206	14	0	14	0	0	0	203	17	220
13	Newspaper coverage	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Radio talks	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	TV talks	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Popular	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	articles														
17	Extension Literature	April to March	22	-	-	-	-	-	-	-	-	-	-	-	-
18	Advisory Services	April to March	6	-	-	-	-	-	-	-	-	-	-	-	-
19	Scientific visit to farmers field	April to March	11	0	0	0	0	0	0	0	0	0	0	0	0
20	Farmers visit to KVK	April to March	115	-	-	-	-	-	-	-	-	-	-	-	-
21	Diagnostic visits	April to March	3	11	0	11	2	0	2	0	0	0	13	0	13
22	Exposure visits	-	1	21	0	21	2	0	2	0	0	0	23	0	23
23	Ex-trainees Sammelan		-	-	-	-	-	-	-	-	-	-	-	-	-
24	Soil health Camp		-	-	-	-	-	-	-	-	-	-	-	-	-
25	Animal Health Camp		-	-	-	-	-	-	-	-	-	-	-	-	-
26	Agri mobile clinic		-	-	-	-	-	-	-	-	-	-	-	-	-
27	Soil test campaigns		-	-	-	-	-	-	-	-	-	-	-	-	-
28	Farm Science Club Conveners meet		-	-	-	-	-	-	-	-	-	-	-	-	-
29	Self Help Group Conveners meetings	-	1	22	0	22	0	0	0	0	0	0	22	0	22
30	Mahila Mandals Conveners meetings		-	-	-	-	-	-	-	-	-	-	-	-	-
31	Celebration of important days (specify)		-	-	-	-	-	-	-	-	-	-	-	-	-
	Grand Total		**181**	**575**	**47**	**622**	**38**	**0**	**38**	**0**	**0**	**0**	**613**	**47**	**660**

* Example for guidance only

Number of Technology weeks celebrated	**Types of Activities**	**No. of Activities**	**Numaber of Participants**	**Related crop/livestock technology**
--	Gosthies	-	-	-
	Lectures organised	-	-	-
	Exhibition	-	-	-
	Film show	-	-	-
	Fair	-	-	-
	Farm Visit	-	-	-
	Diagnostic Practicals	-	-	-
	Distribution of Literature (No.)	-	-	-

	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	-	-	-

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
-	-	-	-

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds	-	-
Pulses	-	-
Cereals	-	-
Vegetable crops	-	-
Tuber crops	-	-
Total		

Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	No.of participants
-	-	-	-
-	-	-	-
Total			

Animal health camps organised

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

Seed distribution in drought hit states

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
-	-	-	-
-	-	-	-
Total			

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
	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-				-			
Total	-	-	-	-	-				-			

3.5 Production and supply of Technological products

SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
CEREALS					
	Wheat	GW-496	78	-	-
OILSEEDS					
PULSES	Black gram	G.Udada -1	9.6	67200	90
	Chick pea	GG-3	40	-	-
VEGETABLES					
FLOWER CROPS					

*An example for guidance only

SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers
1	CEREALS	78	-	-
2	OILSEEDS			
3	PULSES	49.6	67200	90
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS			
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

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

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

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 (with full title, author & reference)

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

(B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers	-	-	-
	-	-	-
Total	-	-	-
Technical reports	3		
Popular articles	1		
Leaflets/folders	Chanani Adhunik Kheti Paddhati	Dr. V.B.Bhalu & Dr.N.B.Jadav	4000
	Jamin tatha Panino Namuno Levani yogya Paddhati	Dr.N.B.Jadav & Dr. V.B.Bhalu	2000
	Lasanni Vaigyanik Kheti Paddhati	Dr. V.B.Bhalu & Dr.N.B.Jadav	2000
	Magfali na Thadno Sado ane tenu Niyantran	Dr. V.B.Bhalu & Dr.N.B.Jadav	2000
	Kapas ma Milibugnu Niyantran	Dr. V.B.Bhalu & Dr.N.B.Jadav	2000
	Vadhu Dudh Utpadan Melavava Pausani Mavjat ane Levani Kalajio	Dr.N.B.Jadav & Dr. V.B.Bhalu	2000
	Amalani Banavato	Dr.N.B.Jadav & Dr. V.B.Bhalu	2000
	Ghauvni Vaigananik Kheti Paddhati	Dr. V.B.Bhalu & Dr.N.B.Jadav	4000
	Masala Pakoni Vaigananik Kheti	Dr.N.B.Jadav & Dr. V.B.Bhalu	2000
	Gir Gay	Dr.N.B.Jadav & Dr. V.B.Bhalu	2000
	Dungali ni Vaigyanik Kheti Paddhati	Dr. V.B.Bhalu & Dr.N.B.Jadav	2000
	Paral/kadabani uria Prakriya	Dr.N.B.Jadav & Dr. V.B.Bhalu	2000
	Divelani Vaigyanik Kheti Paddhati	Dr. V.B.Bhalu & Dr.N.B.Jadav	4000
	Unalu Magfalini Adhunik	Dr. V.B.Bhalu &	4000

	Kheti Paddhati	Dr.N.B.Jadav	
	Kapasa ma Vadhu Utpadan Melavani Chavio	Dr.N.B.Jadav & Dr. V.B.Bhalu	4000
	Chomasu Magfali ni Vaigyanik Kheti Paddhati	Dr. V.B.Bhalu & Dr.N.B.Jadav	4000
	Alasiya : Kheduta na Sacha Sathi	Dr.N.B.Jadav & Dr. V.B.Bhalu	2000
	Tal ni Vaigyanik Kheti Paddhati	Dr. V.B.Bhalu & Dr.N.B.Jadav	4000
	Rasayanik Khataro ma Posak Tatvanu Praman, % ,dar ane teno Karyxam Upyog	Dr. V.B.Bhalu & Dr.N.B.Jadav	2000
	Krushi vikasma KVK no falo	Dr.N.B.Jadav & Dr. V.B.Bhalu	2000
	Panino Karyxam upyog ane tane paddhatio	Dr. V.B.Bhalu & Dr.N.B.Jadav	2000
Total	1		
GrandTOTAL	**3**		**300**

N.B. Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(C) Details of Electronic Media Produced

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)

1. Cultivation of new Wheat variety

2.Background: Mr. Parshotambhai Kanubhai is the progressive farmers of sardharpur village of jetpur taluka. The sardharpur is ne f the operational viallage of KVK Pipalia. He is regularly in touch with KVK's scientist and one frontline demonstration allotted to him in last rabi season. The FLDs of newlyo released wheat varieoty GOW-366. He harvested good yield of 84 q/ha as compare to local one (62 q/ha). With introduction of high yielding variety he got high additional net returns.

3. Interventation: Introduction of new wheat crop varity in area

4. Impact: This variety GW-366 is increase the production of 35.48 percent and will improve the economic condition of farmers of saurashtra region

5. Horizontal spread: Surrounding farmers

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

- Use of cow urine, butter milk, bajra flour etc for insect pest and disease management.
- Use of small or wrinkle seeds of groundnut for sowing purpose.
- Farmers grow maize as a mixed crop in groundnut and inter crop in cotton.
- Cotton Stalk Shredder
- Wheel Hoe
- Cotton Stalk Puller
- Tractor mounted spryer
- Chaff Cutter for Minimizing the Animal Fodder Waste
- IPM in Cotton-Use of Trap crop, Pheromone trap, etc.
- Minimizing the chemical Fertilizer and Maximizing organic manure.
- Value addition in different agriculture crops.

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	Farmers maintain a set furrow system and apply manure and fertilizer every year in the same furrow.	To get residual effect of manure and fertilizer in succeeding crop
2	Groundnut	Some farmers near the river bed, apply sand in the set furrow for increasing infiltration rate of the soil	To reduce the water Logging condition in the field
3	Kharif crops	Farmer apply supplementary irrigation to the crops during moisture stress condition	For life saving irrigation to minimize the risk of crop failure
4	Cotton	Farmers grow Maize after 3-4 rows of cotton	To increase the natural enemies and fodder purpose
5	Cotton	After heavy rain, farmer apply irrigation to balance the salt concentration at top of soil	To balance the salt concentration
6	Groundnut	Farmers grow maize as mix crop in groundnut	To increase natural enemies & fodder purpose

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

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

3.11 Field activities

4. Number of villages adopted :16
ii. No. of farm families selected :364
iii. No. of survey/PRA conducted: nil

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : …NIL…

1. Year of establishment :
2. List of equipments purchased with amount :

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

3. Details of samples analyzed so far :

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

4.0 IMPACT

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

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

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

4.2. Cases of large scale adoption

1. Adoption of *Trichoderma* culture powder for the management of stem rot diseas in groundnut
2. Adoption of *Bt*. cotton varieties with INM and IPM concepts.
3. Farmers prefers to sow semi spreading and high yielding variety of groundnut i.e. GG-20
4. Most of the farmers adopt new variety of cumin (GC-4) which is resistant to wiltdisease
5. Intercropping/mix cropping in groundnut and cotton was adopted for minimize the risk factor in dry land agriculture with preservation of natural enemies.
6. Farmers are ready to use of rotavator/ cotton shredder/ mobile chopper for increasing the organic matter in soil particularly in Bt. Cotton cropping system.

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

---NIL---

5.0 LINKAGES

5.1 Functional linkage with different organizations

Sr. No.	Name of organization	Nature of linkage
A	**Junagadh Agricultural University**	
1	College of Agriculture, Junagadh.	Impart training on Agril. aspects.
2	College of Agril. Engg, Junagadh	Impart training on Engg. aspects
4	Pulse Research Station, Junagadh	Supply of seeds for crop museum
5	Oilseeds Research Station, Junagadh	Supply of seeds for crop museum
6	Wheat Research Station, Junagadh	Supply of seeds for crop museum
B	**State corporation and state deptt.**	
1	District Agricultural Officer, Deptt. of Agriculture, District Panchayat, Rajkot	➢ Joint diagnostic team visit at farmers field ➢ Organizing collaborative training to farmers ➢ For collaborative off campus training ➢ For collaborative training and demonstration Programme ➢ Collaborative on campus training programme ➢ For providing hostel facilities to participants and organizing collaborative Mahila Krishi Mela
2	District Rural Development Agency, Rajkot	
3	Deputy Director of Horticulture,Rajkot	
4	Deputy Director of Agriculture (Training), Farmer Training Centre, Rajkot	
5	Deputy Director of Agriculture (Extension), Rajkot	
6	Estate Engineer, Department of Irrigation, Dhoraji	
7	All Taluka Development Officers, and their team at Taluka level	
8	ATMA, Rajkot	

NB The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Seed Village Progamme	2013-14	State Government	200000/-

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

S. No.	Programme	Nature of linkage	Remarks
1	District Level Training	Impart Training on Agricultural Aspects	-
2.	Block level training		

5.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
-	-	-	-
-	-	-	-

5.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
-	-	-	-
-	-	-	-

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

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	
Cereals									
Wheat	25.11.2013	7.4.2014	2	GW-496	Seed	78			
Pulses									
Udad	10.8.2013	11.11.2013	3	G.Udad- 1	Seed	9.6			
Chick pea	5.12.2013	4.4.2014	1.8	GG-3	Seed	40			

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

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)

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 DemonstrationUnit

Date	Title of the training course	Client (PF/RY/ EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/STParticipants		
				Male	Female	Total	Male	Female	Total
-	-	-	-	-	-	-	-	-	-

6.5 Utilization of hostel facilities

Accommodation available (No. of beds) : --Nil--

Months	Title of the training course/Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
-	-	-	-	-

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	Galaxy chowk, Dhoraji	32586636847

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2014
	Kharif 2013-14	Rabi 2013–14	Kharif 2013-14	Rabi 2013-14	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
TOTAL	-	-	-	-	-

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2014
	Kharif 2013-14	Rabi 2013–14	Kharif 2013-14	Rabi 2013-14	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
TOTAL	-	-	-	-	-

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

Item	Released by ICAR	Expenditure	Unspent balance as on 1st April 2014
	Kharif 2013-14	Kharif 2013-14	
Inputs	-	-	-
Extension activities	-	-	-
TA/DA/POL etc.	-	-	-
TOTAL	-	-	-

7.5 Utilization of KVK funds during the year 2012-13 and 2013-14 (upto March, 2014) (year-wise separately) (current year and previous year)

(A) Utilization of KVK funds during the Year 2012-13

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	6.00	6.00	5.99
2	**Traveling allowances**	0.50	0.50	0.17
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	2.00	2.00	1.85
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	3.00	3.00	1.71
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		**11.50**	**11.50**	**9.74**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Tractor with implements)	6.00	6.00	5.96
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		6.00	6.00	5.96
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**17.50**	**17.50**	**15.70**

*Including opening unspent balance available with KVK as on 01.4.2012

(B) Utilization of KVK funds during the Year 2013-14

No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	25	25	23
2	**Traveling allowances**	0.60	0.60	0.37
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	3.30	3.30	3.17
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	4.95	4.95	4.52
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		**8.25**	**8.25**	**7.70**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler)	8.00	8.00	7.37
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)		**8.00**	**8.00**	**7.37**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**41.85**	**41.85**	**38.70**

7.5 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 2011 to March 2012	0	0	0	0
April 2012 to March 2013	100000	10970	0	110970
April 2013 to March 2014	110970	48444	28	159406

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

8.1 Constraints

(a) Administrative
(b) Financial
(c) Technical

Annexures -I

Minutes of the 2nd Scientific Advisory Committee (SAC) Meeting of KVK Pipalia held on 31st December 2013 at Krishi Vigyan Kendra, JAU,Targhadia, (Rajkot)

The first Scientific Advisory Committee meeting of Krishi Vigyan Kendra, Junagadh Agricultural University, Pipalia was held in the KVK training hall of Krishi Vigyan Kendra, Junagadh Agricultural University, Targhadia on 31st Dec, 2013. The meeting was chaired by Dr. N. C. Patel, Honorable Vice Chancellor, Junagadh Agricultural University, Junagadh.

The Following members were remaining present in the meeting.

Sr. No.	Name & Designation	Position	Sr. No.	Name& Designation	Position
1	Dr. N. C. Patel, Honorable Vice Chancellor, JAU, Junagadh.	Chairmen	16	Shri. Parsottambhai K. Senjalia, Progressive farmers Shardharpur, Ta: Jetpur Dist:Rajkot	Member
2	Dr.J.B.Mishra Director, DGR, Ivanagar	Member	17	Shri Lalitbhai Kanjbhai Parmar Progressive farmers Pipalia, Ta: Dhoraji Dist:Rajkot	Member
3	Dr. I. U. Dhruj, ADR, JAU, Junagadh	Member	18	Shri Gopalbhai C. Viradiya Progressive farmers Rayadi, Ta:Jam kandorana Dist: Rajkot	Member
4	Dr.H.B.Gardharia ADE, DEE, JAU, Junagadh	Member	19	Shri Ashokbhai G. Poshiya Progressive farmers Rayadi, Ta: Jam Kandorana Dist: Rajkot	Member
5	Dr. K.N. Akbari, Research Scientist (DFRS), Targhadia	Member	20	Dr. K. L. Raghvani, PC, KVK, Jamnagar	Member
6	Shri. B.H. Agatha, DAO, District Panchayat,Rajkot	Member	21	S.B.Sharma, NHRDF, Rajkot	Invitee Member
7	Shri. L.R. Sadiya, Project Director, ATMA, Rajkot	Member	22	Dr. J. N. Nariya, PC, KVK, Nana Kanthasar	Invitee Member
8	Dr.H.D. Kansagara Dy.DAH District Panchayat,Rajkot	Member	23	Dr. V. B. Bhalu, SMS, KVK,Pilalia, Dist. Rajkot	Invitee Member
9	Dr. G. R. Sharma, Principal, Polytechnic in Agri. Engg., Targhadia	Member	24	Dr.V.N. Patel Research Scientist (DF) JAU, Targhadia	Invitee Member
10	Dr. S.K. Tiwari, NHRDF, Rajkot	Member	25	Dr.M.S. Gajera RS (DF)JAU Targhadia	Invitee Member
11	Shri Devesh Parmar, DDM, NABARD, Rajkot	Member	26	Dr. M.D. Thesiya Veterinary Officer, Rajkot	Invitee Member
12	Dr. M.D. Pethani, Assistant Manager, Rajkot Dairy, Rajkot	Member	27	Vegada Shital B. MDT, DWDU, Rajkot	Invitee Member
13	Shaumeen Ahmed, TE, Office of Project Director, DWDU, Rajkot	Member	28	Naresh M Boricha MDT (Agri.) DWDU, Rajkot	Invitee Member
14	Shri K.V. Chavda All India Radio, Rajkot	Member	29	Dr. N.B.Jadav, PC, KVK, Pipalia	Member Secretary
15	Dr. B.B.Kabaria, PC, KVK, Targhadia, Dist. Rajkot	Member			

In the beginning Dr. K. N. Akabari, Research Scientist, Dry Farming Research Station, Targhadia welcomed Chairman of the Committee Dr. N. C. Patel, Honorable Vice Chancellor, Junagadh Agricultural University, Junagadh, Dr. H.B.Gardharia, ADE, DEE office, Junagadh and Dr. I. U. Dhruj, Associate Directorate of Research, JAU, Junagadh, and all the members, Progressive farmers and farm women of the cluster villages and scientists of DFRS and KVK targhadia and pipalia.

Dr. N. C. Patel, Honorable Vice Chancellor, Junagadh Agricultural University, Junagadh inaugurated the meeting by lighting the lamp. Chairman of the meeting and all the members of SAC meeting were also welcomed with flowers.

Dr. N.B.Jadav, PC, KVK, Pipalia presented the annual progress report of the year 2013-14 (April'13 to Dec'2013) and action plan for the Year 2014-15 (April-14 to March-15), including training achievements, extension activities, etc. conducted by this center during the year 2013-14.

The following suggestions were made by the SAC members during the meeting.

1. To increase numbers of farmers per training (i.e. 25 to 50).
2. KVK targhadia will carried out off campus training programme also in KVK pipalia operational area.
3. Changes made in OFT of white grub treatment (i.e. intervention).
4. Awareness regarding protective cultivation carried out among farmers of adopted villages and accordingly training should be carried out.

Finally, the meeting was concluded by performing the vote of thanks by Dr. B. B. Kabaria, PC, KVK, Targhadia.

Annexure II

District - I

General census :31.70 lac
Agricultural and allied census: 16.48 lac
Agro-climatic zones: north saurashtra agro climatic zone-V
Agro-ecosytems:

sr. no	Agro ecological situation	Charactrstics	Taluka covered*
1.	Medium black soil with 500-600 mm rainfall9 (situation no.2)	shallow black to medium black moderatelydeep up to 30-80 cm.	Gondal,jamkandorna
2.	Shallow black soil with 500-600 mm rainfall9 (situation no.4)	..	Lodhika,padadhri, Rajkot,kotada sangani
3.	Residual sandy soils with 500-600mm Rainfall (situation no.7)	Sandy and saline	morbi,vankaner,Tankara, mailya
4.	Hilly soils with 500-600mm Rainfall (situation no.14)	Hilly	Jasdan

*Jetpur,dhoraji,and upleta taluka under the south saurashtra (Vll) Agro-climatic zone.

Major and micro-farming systems

- Cotton-Cumin,Groundnut-Vegetable,Groundnut-Flower,Forage-Flower major production systems : Cottion and Groundnut base

The major crop sequeneces/rotations follwed

1.Groundnut : Groundnut-Groundnut,Groundnut-Wheat/Cumin/chick pea/ vegetable/fodder crop. Groundnut-Cottin,Groundnut-sesamum,

2. Cotton : Cotton-Cotton/Wheat/summer groundnut/summer sesamum/ mung

major intercropping systems followed in the area are: groundnut+castor(3:1) groundnut + pigeon pea (3:1), groundnut+sesamum (6:3),pearl millrt + pigeon pea (2:1), sorghum + pigeon pea (1:1) and cotton + green gram /black gram/ groundnut in paired row system.

Major agriculture and allied enterprises:

- Agriculture-Animal Husbandury
- Agriculture + Horticulture

Agro-ecosystem Analysis of the Focus/target area -II

1. **Names of villages,focus area,target area etc.**

Sr. no	Taluka	Name of the village	Focus area	Target area
1.	Jam Kandorana	Taravada	-Heavy infestions of sucking pest and reddening of cotton, Stem rot disease in Groundnut. -Create awareness of newly released variety -Infestation of stem rot in Groundnut -Create awareness of MIS	- lpm and lnm in major crop of this area - Use of Trichoderma for management of Stem rot disease in groundnut - To create the awareness for grading, processing and marketing (value addition) - Use of drip and sprinkler in cotton and horticultural crops
		Rayadi		
		Hariyasan		
2.	Jetpur	Shardharpur		
		Thana galol		
		Arab Timbadi		
3.	Dhoraji	Fareni		
		Parabadi		
		Bhola		
		Vadodar		
4.	Upleta	Mekhatimbi Varzang zariya		

2. survey methods used (survey by questionnaire,PRA,RRA,etc.) :survey
3. Various techniques used and brief documentation of process involved in applying the techniques used like release transect,resource map,etc :Resource map
4. Analysis and conclusions:Majority of farmers dose not aware with INM,IPM,efficient use of water,scienetific management of animals and processing of agricultural products.

5&6 List of locatin specific problems and brief description of frequency and extent/intensity/severity of each problem

Sr.No.	Location specific problem	Brief description of frequency	Extent/intensity/severity of each problem	Matrix ranking of problem
1.	Heavy infestation of sucking pest in cotton	Trips: at the time of dry spell	Heavy infestation	Regularly
		Jassid:month of September	Heavy infestation	Regularly
		White fly: Oct-Nov	Moderate infestation	Occasionally
2.	Reddening of cotton	in the month of September and water stagnation condition	Moderate infestation	Regularly
3.	Stem rot disease in groundnut	After one month of showing of groundnut	Moderate infestation	Sporadically
		Severity increased during dry spell	Heavy infestation	Frequently

7,8 & 9 List of location specific thrust areas

Sr.No.	Taluka	Name of the village	Thrust area	List of location specific technology needs for OFT and FLD	Matrix ranking of technologies
1	Jamkadorana Jetpur Dhoraji Upleta Gondal	Taravada Rayadi Boriya Hariyasan Shardharpur Thanagalol Arab timbadi Fareni Parabadi Bhola Vadodar Mekhatimbi Varzang zariya Gomata Charakhadi Chadavadar	IDM in groundnut	Use of Trichoderma for management of stem rot disease in groundnut	Occasionally
			IPM in major crop of this area G'nut and cotton	Intercropping of maize to attract bio agent for conservation and by demonstrating IPM component	Regularly
			To create awareness of new recommended variteties of different crops likecumin, wheat, chick pea, sesame, summer groundnut	Deomnstration of newly released variety	Regularly

11. List of location specific training need

1	Importance of drip irrigation in horticulture and other crops
2	Emerging insect pests and disease of Bt.cotton and their management
3	Value addition in agriculture crops
4	Role of micronutrient for soil sustainability
5	To aware newly released variety
6	Importance of fertilizer management in cotton and groundnut crops
7	Stem rot management in groundnut
8	Wilt management in Bt.cotton

Technology Inventory and Activity Chart-III

1.Name of research institutes, research stations, regional centres of NARS (SAU and ICAR) and other public and private bodies having relevance to location specific technology needs

2. Inventory of latest technology available

Sl.No.	Technology	Crop/enterprise	Year of release or recommendation of technology	Source of technology	Reference/Citation
1.	Cv.GG-3	Chickpea	2007	Pulse research station, JAU, Junagadh	--

3. Activity Chart

Crop/Enterprise	Problem	Cause	Solution	Acitivity	Reference of Technology
Cotton	Sucking pest in cotton	Improper use of insecticides	Integrated pest management of sucking pest	Training and FLD	Recommendations of JAU, Junagadh
Groundnut	Stem rot	1.Mono cropping of groundnut 2.Frequent inter culturing	1.Crop rotation 2.Need base inter culturing 3.Use of Trichoderma	Training and FLD	Recommendations of JAU, Junagadh

4. Details of each of the technology under assessment, Refinement and demonstration

Sr.No.	Crop	Variety	Characters
1	Cumin	GC-4	High yielding and wilt resistance
	Wheat	GW-366	High yielding and quality production
	Chick pea	GJG-3	High yielding and suitable for irrigation and un irrigated condition , moderate wilt resistance
	Sesame	GT-4	High yielding variety
	S. Groundnut	GJG-31	High yielding for summer season