PROFORMA FOR PREPARATION OF ANNUAL REPORT (April-2015-March-2016)

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	73	1809	924	2733
Rural youths	1	0	35	35
Extension functionaries	2	32	29	61
Sponsored Training	16	668	64	732
Vocational Training	2	0	76	76
Total	94	2509	1128	3637

2. Frontline demonstrations

Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	40	23	3
Pulses	10	4	1
Cereals	10	5	1
Vegetables	-	-	-
Other crops	20	8	2
Hybrid crops	-	-	-
Total			
Livestock	20	-	20
Home science	10	-	1
Total			
Grand Total	110	40	

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	2	6	6
Livestock	1	3	18
Various enterprises(Home science)	2	6	18
Total	5	15	42
Technology Refined			
Crops	-	-	-
Livestock	-	-	-
Various enterprises	-	-	-
Total	-	-	-
Grand Total	5	15	42

4.

5. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1768	9863
Other extension activities	96	96

Total	1864	9959

6. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Awar e-ness	Other enterprise	Total
	Text only	76	70	24	31	86	32	319
	Voice only	223	262	35	52	107	289	968
	Voice & Text both	-	-	-	-	-	-	-
	Total Messages	**299**	**332**	**59**	**83**	**193**	**321**	**1287**
	Total farmers Benefitted	**299**	**332**	**59**	**83**	**193**	**321**	**1287**

7. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	552.42/3	588000
Planting material (No.)		
Bio-Products (kg)		
Livestock Production (No.)		
Fishery production (No.)		

8. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil	250	-
Water		
Plant		
Total	**250**	**-**

9. HRD and Publications

Sr. No.	Category	Number
1	Workshops	1
2	Conferences	1
3	Meetings	12
4	Trainings for KVK officials	3
5	Visits of KVK officials	4
6	Book published	0
7	Training Manual	0
8	Book chapters	0
9	Research papers	4
10	Lead papers	1
11	Seminar papers	11
12	Extension folder	10
13	Proceedings	1
14	Award & recognition	2
15	On going research projects	0

DETAIL REPORT OF APR-2015-16

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, 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)	0285-2672080-90	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	0285-2653009	09924012649	nb_jadav@yahoo.com

1.4. Year of sanction: 16, March-2012

1.5. Staff Position (as on 30th March, 2016)

16)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discip-line	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Perman-ent /Temp-orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Programme Coordinator	Dr. N. B. Jadav	PC	Ext.Edn.	15600-39100	22320	18.08.06	Temp.	OBC	9924012649	40	dr_nbjadav@jau.com
2	Subject Matter Specialist	Dr. M. K. Bariya	SMS(HS)	Ext. Edu.	15600-39100	22340	24.08.06	Temp.	Other	9998311249	42	minaxibariya@gmail.com
3	Subject Matter Specialist	S. V. Undhad	SMS (Pl. Pro.)	Pl. Prot.	15600-39100	15600	27.03.15	Temp.	Other	9428626278	30	undhadsv@jau.in
4	Subject Matter Specialist	Dr. V. S. Prajapati	SMS(LPM)	AH	15600-39100	15600	01.04.15	Temp.	OBC	9913615651	29	drvijay87@gmail.com
5	Subject Matter Specialist	Vacant	SMS(Ext.)	Ext. Edn.	-	-	-	-	-	-	-	-
6	Subject Matter Specialist	Vacant	SMS (Agro.)	Agronomy	-	-	-	-	-	-	-	-
7	Subject Matter Specialist	Vacant	SMS (Agri. Engg.)	Agri. Eng.	-	-	-	-	-	-	-	-
8	Programme Assistant	F. P. Kargatiya	Prog. Asstt.	M.Sc.(Agri)	9300-34800	13700 Fix	07.04.15	Temp.	OBC	9904293064	29	kargatiyaforam78@jau.in
9	Computer Programmer	R. G.Panseriya	Prog. Asstt.	Com. Operater	9300-34800	11750	31.12.13	01-01-13 Pool at IT)	Other	9426713736		panseriyarg@jau.in
10	Farm Manager	N. M. Pithiya	Farm Manager	B.Sc.(Agri)	9300-34800	13700 Fix	01.04.15	Temp.	OBC	7383544981	23	nimishpithiya@jau.in
11	Accountant / Superintendent	K. G. Dhaduk	Accountant / Superintendent	Accounting & Admins.	9300-34800	11750	12.06.13	Temp.	Other	9925574778		kgdhaduk@jau.in
12	Stenographer	K. R. Yadav	Jr. Steno.	Steno.Grade III	5200-20200	7810	06.02.14	Temp.	OBC	9879156918	32	kryadav@jau.in
13	Driver	Vacant	Driver(Jeep)	-	-	-	-	-	-	-	-	-
14	Driver	Vacant	Driver(Tractor)	-	-	-	-	-	-	-	-	-
15	Supporting staff	Vacant	Peon	-	-	-	-	-	-	-	-	-
16	Supporting staff	Vacant	Peon	-	-	-	-	-	-	-	-	-

1.6. Total land with KVK (in ha) :**20.00 ha**

S. No.	Item	Area (ha)
1	Under Buildings	-
2.	Under Demonstration Units	-
3.	Under Crops	16.00
4.	Orchard/Agro-forestry	-
5.	Others (specify)	4.00

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	ICAR	-	-	-	-	550	On going
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	28033	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 in the year(3rd SAC Meeting)

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	26/02/15	1. Dr.A.R.Pathak, Hon'ble Vice Chancellor, JAU, Junagadh. 2. Dr.A.M.Parakhia, DEE, JAU, Junagadh 3. Dr.A.Y.Desai,DR, JAU, Junagadh 4. Dr.V.R.Kathiriya, Chairman, Gujarat GauvSevaAyog, Govt. of Gujarat, Gandhinagar	1. To increase the training of home science and adding the training of quality control 2. To aware the farmers about use of bio-fertilizer, liquid	1. The suggestion has been incorporated in action plan 2. Suggestion accepted

		5. Dr. K.N. Akbari,RS (DFRS), JAU, Targhadia 6. Shri. B.H. Agatha,DAO, District Panchayat,Rajkot 7. Dr.H.D. Kansagara, Dy.DAH, District Panchayat, Rajkot 8. Shri. R.H.Ladani, Dy.Director, Horticulture, Rajkot 9. Shri. A.N. Jambukiya, ACF, Rajkot 10. Shri. M.B. Nasit, Dy. Project Director, ATMA Project, Rajkot 11. Dr.P.B.Kundariya, AGM, Rajkot Dairy,Rajkot 12. Shri. A.L Patel, Regional office, Bank of Baroda, Rajkot 13. Shri. ShailendraOza, SD, Door Darshan Kendra, Rajkot 14. Shri. V.K.Dholariya, All India Radio, Rajkot 15. Shr. Rasik Gajera, GGRC, Rajkot 16. Dr. G. R. Sharma, Principal, Polytechnic in Agri. Engg., JAU, Targhadia 17. D.B.B. Kabariya, PC, KVK, JAU, Targhadia 18. Shri. H.K.Kandoriya, PC, KVK, JAU, Jamnagar 19. Dr. B.B.Kunjadiya, PC, KVK, JAU, Amreli 20. Dr. V. B. Bhalu,SMS, KVK, JAU, Pilalia, 21. Miss. Minaxi Bariya, SMS, KVK, JAU, Pipalia 22. Dr. J.B. Kathiriya, SMS, KVK, JAU, Targhadiya 23. VegadaShital B., MDT, DWDU, Rajkot 24. Naresh M Boricha, MDT (Agri.) DWDU, Rajkot 25. Shri. Parsottambhai K. Senjalia, Progressive farmers 26. ShriLalitbhaiKanjbhaiParmarProgressive farmers 27. Shri. Nileshbhai Veljibhai Hadiya, Progressive farmers 28. Govindbhai Kalkani, Progressive farmers 29. Shri. KaransinghSolanki, Rtd. Officer, Door darashan Kendra, Rajkot 30. Dr.N.B.Jadav, PC, KVK, JAU,Pipalia	fertilizer and organic farming 3. Addition of on farm trials of mulching on selected crops 4. Increase the other extension activities	3. Suggestion accepted 4. Suggestion accepted
2.	-	-	-	-

Note : This yellow mark may be treated as an example

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

2. DETAILS OF DISTRICT (2015-16)

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

S. No	Farming system/enterprise
1	Groundnut-Wheat / Coriander, 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 Agro climatic 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 districts medium black and 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 Agro climatic 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, Kotadasangani	
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	155900	292312	188
2	Sesamum	290	254	88
3	Castor	7804	29265	375

4	Cotton	156924	333464	213
5	Wheat	5565	24347	438
6	Green gram	735	1470	200
7	Coriander	2112	3168	150
8	Cumin	2051	1539	75
9	Garlic	792	3564	450
10	Chickpea	574	1292	225

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
April	-	44.0	21.1	92
May	-	43.2	23.8	95
June	257.9	42.5	23.3	78
July	193.1	37.0	23.0	92
August	10.3	34.9	24.2	92
September	125.9	36.6	20.5	78
October	-	38.4	15.0	91
November	-	36.4	11.8	83
December	-	36.5	7.6	81
January	-	33.0	8.1	84
February	-	36.2	11.0	89
March	-	37.4	17.0	85

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

Category	Population	Production	Productivity
Cattle			
Crossbred	**156468**		
Indigenous	449828		
Buffalo	43220		
Sheep			
Crossbred			
Indigenous	196169		
Goats	172477		
Pigs	122		
Crossbred			
Indigenous			
Rabbits	45		
Poultry			
Hens			
Desi	961313		
Improved			
Ducks			
Turkey and others			

Category	Area	Production	Productivity
Fish	-	-	-
Marine	-	-	-
Inland	-	-	-
Prawn	-	-	-
Scampi	-	-	-
Shrimp	-	-	-

2.7 Details of Operational area / Villages (2015-16)

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

2.8 Priority/thrust areas

Crop/Enterprise	Thrust area
Groundnut	Increase productivity of crops by adopting recommended practices and integrated pest management & IDM (Management of white grub and stem rot)
Cotton	-Integrated pest management (management of pink bollworm in Bt.cotton) INM in cotton -Recycling of cotton stalk (Popularizing of cotton shredder)
Cumin	Integrated disease management
Coriander, sesamum etc	Increasing the productivity of major crops by adopting recommended technologies, newly release variety and to create awareness of value addition
Farm waste	Recycling of farm waste through composting, vermin compost, 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 (Papaya, Pomegranate, Chilly)	Post-harvest technology and value addition in fruit and vegetable, INM in orchard
Animal Husbandry	Increasing the productivity of livestock animals by adopting scientific practices and to create awareness about clean milk production

* An example for guidance only

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2015-16

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
5	5	42	42	40	40	105	110

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	68	74	1800	2733	450	578	5000	9959
Rural youth	2	1	60	35				
Extn. Functionaries	3	2	75	61				
	73	77	1935	2829				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
Groundnut	34.5	-	Tomato	200	12
Black gram	1.92	-	Brinjal(GJB-2)	200	12
Wheat	216	-	Brinjal(GJB-3)	200	12

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management	1	Response of Bio fertilizers to wheat yield	3	3
Varietal Evaluation				
Integrated Pest Management	1	Management of white grub in groundnut	3	3
Integrated Crop Management				
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post-Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				

Others (Pl. specify)				
Total				

Summary of technologies assessed under livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management	Feed management	Effect of supplementation of concentrate and mineral mixture on milk production of local buffalo breed.	03	18
Production and Management				
Others (Pl. specify)				
Total				

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers
Value addition	Home Science	Mango pickles	3	3
Nutrition management	Home Science	Iron rich diet	3	15

Note: Suppose **IPM in paddy** is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.B. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops by KVKs

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation				
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
Total				

Summary of technologies refined under various livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management				
Others (Pl. specify)				
Total				

Summary of technologies refined under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers

Note: Suppose **IPM in paddy** is the technology refined by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

(From each state please include the full details of three OFTs on technology assessment and or refinement under the broad thematic areas such as Integrated Crop Management, weed management, pest and disease management, nutrient management, resource conservation, livestock enterprises, Integrated Nutrient Management)

(The model for preparing the same is furnished below)

INTEGRATED PEST MANAGEMENT

Problem definition: *Low yield due to white grub infestation in groundnut*

Technology Assessed : *Management of white grub in groundnut*

*KVK, Pipalia in Gujarat conducted on-farm trial to assess effect of management of white grub in groundnut. The application of recommended practices (i.e. 1. Seed treatment with chloropyriphos @25 ml/kg. 2.*Application of Chloropyriphos @ 4 lit./ha 3. Spraying the trees on bund with carbaryl@ 40g/15 lit water) gave highest yield of 1650 t/ha with BCR Rs. 1.54 as *compare to other treatments.*

Table 1 *Management of white grub in groundnut*

Technology Option	*No.of trials*	*Yield (t/ha)*	*BCR*
Chloropyriphos @ 4 lit./ha at the time of attack *(Farmers Practice)*	*3*	1290	1:1.22
1.Seed treatment with Chloropyriphos @ 25 ml/kg 2. Application of Chloropyriphos @ 4 lit./ha 3. Spraying the trees on bund with carbaryl@ 40g/15 lit water *(Recommended Practice)*		1650	1:1.54
1.Application of carbofuran 3G@ 40kg/ha at time of sowing 2. Spraying the trees on bund with carbaryl@ 40g/15 lit water		1600	1:1.35

NUTRIENT MANAGEMENT

Problem definition: *Less use of biofertilizer and more production cost*

Technology Assessed: Response of Bio fertilizers to wheat yield

KVK, Pipalia of Rajkot district of Gujarat state took up on-farm trial on response of biofertilizers to wheat yield. The results indicated that the Application of Azatobacter& PSB culture (250g/10kg) + 75% of *gave highest yield 4550 qt/ha with net return of Rs. 48905 and BCR 1.59 as compared to farmers practices and recommended practices.*

***Table** 2 Response of Bio fertilizers to wheat yield*

Technology Option	***No.of trials***	***Yield (qt./ha)***	***Net Return (Rs./ha)***	***B:C Ratio***
Application of only DAP & Urea in different doses *(Farmers Practice)*	*3*	4417	45097	1:1.40
120-60-0 NPK kg/ha *(Recommended Practice)*		4467	46972	1:1.50
Application of Azatobacter& PSB culture (250g/10kg) + 75% of RDF		4550	48905	1:1.59

LIVESTOCK ENTERPRISES

Problem definition: Low milk production due to inadequate nutrition

Technology Assessed : **Effect of supplementation of concentrate and mineral mixture on milk production of local buffalo breed**

KVK, Pipalia of Rajkot district of Gujarat state took up on-farm trial on **Effect of supplementation of concentrate and mineral mixture on milk production of local buffalo breed**. *The results indicated that feeding of* concentrate mixture (5kg/animal/day) + Mineral mixture (50gm/ animal/ day) gave higher milk production/week 8.5 lit/day as compared to other treatments.

***Table** 3 Effect of supplementation of concentrate and mineral mixture on milk production of local buffalo breed*

Technology Option	***No. of trials***	***Av. Milk Production/ week (lit/day)***
Routine Farmer Practice *(Farmers practice)*	*18*	*7.3*
Feeding of concentrate mixture (5kg/animal/day) *(Recommended practice)*		*7.5*
Feeding of concentrate mixture (5kg/animal/day)+ Mineral mixture (50gm/ animal/ day)		*8.5*

HOME SCIENCE

Problem definition: Low iron content and inadequate knowledge about nutritional food

Technology Assessed: **Prevention of Anemia among rural adolescent girls**.

KVK, Pipalia of Rajkot district of Gujarat state took up on-farm trial on **Prevention of Anemia among rural adolescent girls**. *The results indicated that feeding of* Iron tablet per day + 50 gm roasted soybean + 100 gm rice flakes per day with existing dietary pattern gave higher av. Body weight of 1.190 kg with HB level 1.52 per cent as compared to other treatments.

Table 4 Prevention of Anemia among rural adolescent girls.

Technology Option	***No. of trials***	***Av. Body weight (kg.)***	***Av. HB level (%)***
First group for control	*15*	0.840	0.46
iron tablet per day with existing dietary pattern *(Recommended practice)*		0.880	0.70
Iron tablet per day + 50 gm roasted soybean + 100 gm rice flakes per day with existing dietary pattern		1.190	1.52

VALUE ADDITION

Problem definition: Spoilage in mango pickle

Technology Assessed: Prevention of spoilage in mango pickles

KVK, Pipalia of Rajkot district of Gujarat state took up on-farm trial on **Effect of salt & oil on spoilage of mango pickles**. *The results indicated that of Refinement* treatment of pickle making i. e. Salt 20% (200 gm) + Oil 200ml/ kg mango gave soft and golden yellow colour pickle with low cost preparation as compared to other treatments.

Table 5 Prevention of spoilage in mango pickles

Technology option	No. of trail	Shelf life of mango pickle(Days)	Colour of pickle	Texture of pickle	Cost of pickle(Rs)
Farmers' practices Salt 12% (120 gm) + Oil 800ml/ kg mango	03	365	Slightly darken red colour	Chunky and very dense	156/-
Recommended Practice Salt 15% (150 gm) + Oil 250ml/ kg mango		365	Predominantly red colour	Gumminess texture and slightly smooth pieces	100/-
Refinement Salt 20% (200 gm) + Oil 200ml/ kg mango		365	Golden yellow colour	Soft	96/-

II. FRONTLINE DEMONSTRATION

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2014-15 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	IPM	IPM				
2	Groundnut	IDM	Trichoderma				
3	Sasame	Varietal	G Til-3				
4	Chick pea	Varietal	GG-3				
5	Wheat	Varietal	GW-366				

6	Cumin	Varietal	GC-4				
7	Cotton	INM	INM				
8							
9							
10							

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

b. Details of FLDs implemented during 2015-16 (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* 2015-16	15	15	3	17	20	-
2	Groundnut*	IDM	Trichoderma	*Kharif* 2015-16	4	4	2	8	10	-
3	Sesame	Varietal	G Til-3	*Summer* 2016	4	4	2	8	10	-
Pulse										
4	Chickpea	Varietal	GG-3	*Rabi* 2015-16	4	4	2	8	10	-
	Cereals									
5	Wheat	Varietal	GW-366	*Rabi* - 2015-16	5	5	3	7	10	-
Spice and Others										
6	Cumin	Varietal	GC-4	*Rabi* 2015-16	4	4	2	8	10	-
7	Cotton	INM	INM	*Kharif* 2015-16	4	4	1	9	10	-
Animal Husbandry										
8	Cattle	Feed Management	Anabolit liquid	2015-16	10	10	2	8	10	-
9	Cattle	Feed Management	mineral mixture	2015-16	10	10	2	8	10	-
Home Science										
10	Vegetable Crops	Household food security by kitchen gardening and nutrition gardening	Kitchen Gardening	*Rabi* 2015-16	05	10	0	10	10	-

Details of farming situation

Crop	Season	Farming situation (RF/ Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Oilseeds											
Groundnut	*Kharif*	Rainfed	MB	M	M	H	Cotton	23th to	25 Oct to	642.5	22

								30th June	5 Nov		
Groundnut*	*Kharif*	Rainfed	MB	M	M	H	Wheat	23th to 30th June	25 Oct to 5 Nov	642.5	22
Sesame	*Summer*	Irrigated	MB	M	M	H	Cotton	-	-	-	-
Pulse											
Chick pea	*Rabi*	*Irrigated*	MB	M	M	H	G'nut	15 Nov to 30 Nov	-	-	-
Cereals											
Wheat	*Rabi*	*Irrigated*	MB	M	M	H	G'nut	15 Nov to 30 Nov	-	-	-
Spice & Other											
Cumin	*Kharif*	Irrigated	MB	M	M	H	G'nut	15 Nov to 30 Nov	-	-	-
Cotton	*Kharif*	Rainfed	MB	M	M	H	cotton	23th to 30th June	5 Jan-10 feb	642.5	22
Cattle	-	-	-	-	-	-	-	-	-	-	-
Cattle	-	-	-	-	-	-	-	-	-	-	-
Kitchen garden	*Rabi*	Irrigated	MB	M	M	H	-	1 Nov to 20 Nov	-	642.5	22

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	-Trichoderma control seclerotium effectively -Beauveria bassiana effective for sucking pest -Hexaconazol control leaf spot and rust
2	-Reduced the deficiency of nutrient -Reduced the cost of fertilizer
3	-Application of Trichoderma at proper time act as a precaution measure for the stem rots.
4	- Due to INM in cotton less reddening of leaves
5	-In cumin G C-4 variety Wilt disease found less as compare to other Variety
6	-G T-3 variety of sesame- Bold seeded, whiteness more and higher production than other varieties
7	-GG-5 variety of Gram gave higher yied

Farmers' reactions on specific technologies

S. No	Feed Back
1	➢ Good management against foliar diseases and increase the yield
2	➢ Reduce the deficiency of micro nutrient
	➢ Good management against white fungi
	-
	-
	-
	-

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organised	Number of participants	Remarks
1	Field days	9	520	
2	Farmers Training	16	448	
3	Media coverage	8		
4	Training for extension functionaries	2	61	

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut																		
	IPM	IPM	GG-20	20	15	23.5	18.5	21	17.5	20.00	44500	84000	39500	1.89	42500	70000	27500	1.65
	IDM	Trichoderma	GG-20	10	4	19.5	16	17.75	15	18.33	43800	71000	27200	1.62	41800	60000	18200	1.44
Sesamum																		
	Varital	Variety demo.	G.Til-3	10	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Mustard																		
Toria																		
Linseed																		
Sunflower																		
Soybean																		

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Pigeonpea																		
Blackgram																		
Greengram																		
Chickpea																		
	Varietal	Variety demo.	GG-5	10	4	26	19	22.6	18.1	24.86	26250	67800	41550	2.58	25200	54300	29100	2.15
Fieldpea																		
Lentil																		
Horsegram																		

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cereals																			
Paddy																			
Waterlogged Situation																			
Coarse Rice																			
Scented Rice																			
Wheat																			
	Varietal	Variety demo.	10	4	46	29	35.5	32.5	9.23	Yield	Yield	29530	62125	32595	2.10	28500	56875	28375	2.00
Wheat Timely sown																			
Wheat Late Sown																			
Mandua																			
Barley																			
Maize																			
Amaranth																			

Millets																		
Jowar																		
Bajra																		
Barnyard millet																		
Finger millet																		
Vegetables																		
Bottlegourd																		
Bittergourd																		
Cowpea																		
Spongegourd																		
Petha																		
Tomato																		
Frenchbean																		
Capsicum																		

Chilli																		
Brinjal																		
Vegetable pea																		
Softgourd																		
Okra																		
Colocasia (Arvi)																		
Broccoli																		
Cucumber																		
Onion																		
Coriender																		
Lettuce																		
Cabbage																		
Cauliflower																		
Elephant fruit																		

Flower crops																		
Marigold																		
Bela																		
Tuberose																		
Gladiolus																		
Fruit crops																		
Mango																		
Strawberry																		
Guava																		
Banana																		
Papaya																		
Muskmelon																		
Watermelon																		
Spices & condiments																		
Cumin	Varietal	Variety demon.	10	4	10	7.5	8.55	7.25	17.93	Yield	Yield	26190	128250	102060	4.90	24750	108750	84000	4.39
Garlic																		
Turmeric																		

Commercial Crops																		
Cotton																		
	IPM	IPM	10	4	24	19	21.5	18	19.44			55800	91375	35575	1.64	54500	76500	22000	1.40
Potato																		
Medicinal & aromatic plants																		
Mentholment																		
Kalmegh																		
Ashwagandha																		
Fodder Crops																		
Sorghum (F)																		
Cowpea (F)																		
Maize (F)																		
Lucern																		
Berseem																		
Oat (F)																		

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters (Milk prod. /Lact)		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
	Nutrition management	Anabolite liquid	10	10	1640	1550	5.81	Milk/lact	Milk/lact	15000	65600	50600	4.37	14570	62000	47430	4.26
	Nutrition management	Mineral powder	10	10	1520	1450	4.83	Milk/lact	Milk/lact	14700	60800	46100	4.14	14550	58000	43450	3.99
Buffalo																	
Buffalo Calf																	
Dairy																	
Poultry																	
Sheep & Goat																	
Vaccination																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	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 (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
Composite fish culture																	
Feed Management																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

Category	Name of the technology demonstrated	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			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom																
Button Mushroom																
Apiculture																
Maize Sheller																

Value Addition																
Vermi Compost																

FLD on Women Empowerment

Category	Name of technology	No. of demonstrations	Name of observations	Demonstration	Check
-	-	-	-	-	-

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total
-	-	-	-	-	-	--	-	-	--	-	--	-	-	-	-	-

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Vegetables seeds	Nutritional gardening	Improved seeds of vegetables (full package)	10	10	20400	19500	4.62	Yield	Yield	275641	461250	185609	1.67	280275	448500	168225	1.60

FLD on Demonstration details on crop hybrids *(Details of Hybrid FLDs implemented during 2015-16)*

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Oilseed crop													
Pulse crop													
Cereal crop													
Vegetable crop													
Fruit crop													
Other (specify)													

Note : Remove the Enterprises/crops which have not been shown

II. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	35	14	49	3	2	5	38	16	54
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
Micro Irrigation/irrigation	1	42	0	42	2	0	2	44	0	44
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	0	0	0	0	0	0	0	0	0	0
Soil & water conservatioin	0	0	0	0	0	0	0	0	0	0
Integrated nutrient management	1	31	0	31	2	0	2	33	0	33
Production of organic inputs	1	39		39	0	0	0	39	0	39
Others (pl specify)	0	0	0	0	0	0				
Total	**4**	**147**	**14**	**161**	**7**	**2**	**9**	**154**	**16**	**170**
II Horticulture										
a) Vegetable Crops	0	0	0	0	0	0	0	0	0	0
Production of low value and high valume 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	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	1	0	23	23	0	0	0	0	23	23
Others (pl specify)				0			0	0	0	0
Total (a)	**1**	**0**	**23**	**23**	**0**	**0**	**0**	**0**	**23**	**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	1	0	15	15	0	2	2	0	17	17
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (b)	**1**	**0**	**15**	**15**	**0**	**2**	**2**	**0**	**17**	**17**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	**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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops	0	0	0	0	0	0	0	0	0	0
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	1	24		24	0	0	0	24	0	24
Processing and value addition	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (f)	**1**	**24**	**0**	**24**	**0**	**0**	**0**	**24**	**0**	**24**

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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**3**	**24**	**38**	**62**	**0**	**2**	**2**	**24**	**40**	**64**
III Soil Health and Fertility Management										
Soil fertility management	1	22	0	22	0	0	0	22	0	22
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	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
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	0	0	0	0	0	0	0	0	0	0
Balance use of fertilizers	1	28	0	28	1	0	1	29	0	29
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**50**	**0**	**50**	**1**	**0**	**1**	**51**	**0**	**51**
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
Animal Nutrition Management	2	0	44	44	0	8	8	0	52	52
Disease Management	2	92	0	92	9	0	9	101	0	101
Feed & fodder technology	1	34	0	34	6		6	40	0	40
Production of quality animal products	1	41	0	41	4	0	4	45	0	45
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**6**	**167**	**44**	**211**	**19**	**8**	**27**	**186**	**52**	**238**
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	1	0	27	27	0	0	0	0	27	27
Designing and development for high nutrient efficiency diet	1	0	42	42	0	2	2	0	44	44
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0
Processing and cooking	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	1	0	30	30	0	0	0	0	30	30
Value addition	2	15	56	71	0	14	14	15	70	85
Women empowerment	0	0	0	0	00	0	0	0	0	0
Location specific drudgery reduction technologies	1	0	44	44	0	4	4	0	48	48
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	1	0	27	27	0	0	0	0	27	27
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**7**	**15**	**226**	**241**	**0**	**20**	**20**	**15**	**246**	**261**
VI Agril. Engineering										
Farm Machinary and its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	1	25	0	25	0	0	0	25	0	25
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
Post Harvest Technology	1	29	0	29	0	0	0	29	0	29
Others (pl specify)				0			0	0	0	0
Total	**2**	**54**	**0**	**54**	**0**	**0**	**0**	**54**	**0**	**54**
VII Plant Protection										
Integrated Pest Management	4	206	0	206	19	0	19	225	0	225
Integrated Disease Management	3	109	0	109	7		7	116	0	116
Bio-control of pests and diseases	1	39	0	39	2		2	41	0	41
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**8**	**354**	**0**	**354**	**28**	**0**	**28**	**382**	**0**	**382**

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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
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
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X CapacityBuilding and Group Dynamics										
Leadership development	1	27	0	27	0	0	0	27	0	27
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	1	0	22	22	0	1	1	0	23	23
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	1	35	0	35	0	0	0	35	0	35
WTO and IPR issues				0			0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**3**	**62**	**22**	**84**	**0**	**1**	**1**	**62**	**23**	**85**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**35**	**873**	**344**	**1217**	**55**	**33**	**88**	**928**	**377**	**1305**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	1	24	0	24	0	0	0	24	0	24
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
Micro Irrigation/irrigation	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
Soil & water conservation	1	32	4	36	3	0	3	35	4	39
Integrated nutrient management	1	21	2	23	0	0	0	21	2	23
Production of organic inputs	0	0	0	0	0	0	0	0	0	0

Others (pl specify)	0	0	0	0		0	0	0	0	0
Total	**3**	**77**	**6**	**83**	**3**	**0**	**3**	**80**	**6**	**86**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume 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	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	1	0	20	20	0	0	0	0	20	20
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (a)	**1**	**0**	**20**	**20**	**0**	**0**	**0**	**0**	**20**	**20**
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	1	7	26	33	0	0	0	7	26	33
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (b)	**1**	**7**	**26**	**33**	**0**	**0**	**0**	**7**	**26**	**33**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	**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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (d)	**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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (e)	**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	1		30	30	0	2	2	0	32	32
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (f)	**1**	**0**	**30**	**30**	**0**	**2**	**2**	**0**	**32**	**32**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**3**	**7**	**76**	**83**	**0**	**2**	**2**	**7**	**78**	**85**
III Soil Health and Fertility Management										
Soil fertility management	1	33	0	33	0	0	0	33	0	33
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	26	0	26	2	0	2	28	0	28
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	0	0	0	0	0	0	0	0	0	0
Balance use of fertilizers	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**2**	**59**	**0**	**59**	**2**	**0**	**2**	**61**	**0**	**61**
IV Livestock Production and Management										
Dairy Management	1	36	0	36	4	0	4	40	0	40
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
Animal Nutrition Management	2	87	0	87	17	0	17	104	0	104
Disease Management	1	20	0	20	8	0	8	28	0	28
Feed & fodder technology	1	25	0	25	9	0	9	34	0	34
Production of quality animal products	1	30	0	30	6	0	6	36	0	36
Others (pl specify)				0			0	0	0	0
Total	**6**	**198**	**0**	**198**	**44**	**0**	**44**	**242**	**0**	**242**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	7	41	48	0	11	11	7	52	59
Design and development of low/minimum cost diet	1	0	6	6	0	22	22	0	28	28
Designing and development for high nutrient efficiency diet	1	0	36	36	0	3	3	0	39	39
Minimization of nutrient loss in processing	2	0	35	35	0	29	29	0	64	64
Processing and cooking	1	0	53	53	0	0	0	0	53	53
Gender mainstreaming through SHGs	1	0	35	35	0	4	4	0	39	39
Storage loss minimization techniques	1	0	54	54	0	0	0	0	54	54
Value addition	1	0	48	48	0	2	2	0	50	50
Women empowerment				0			0	0	0	0
Location specific drudgery reduction technologies	2	0	41	41	0	10	10	0	51	51
Rural Crafts				0			0	0	0	0
Women and child care	1	2	8	10	0	25	25	2	33	35
Others (pl specify)				0			0	0	0	0
Total	**13**	**9**	**357**	**366**	**0**	**106**	**106**	**9**	**463**	**472**
VI Agril. Engineering										
Farm Machinary and its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	1	26	0	26	2	0	2	28	0	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	1	22	0	22	0	0	0	22	0	22
Others (pl specify)				0			0	0	0	0
Total	**2**	**48**	**0**	**48**	**2**	**0**	**2**	**50**	**0**	**50**
VII Plant Protection										
Integrated Pest Management	4	208	0	208	21	0	21	229	0	229
Integrated Disease Management	3	106	0	106	14	0	14	120	0	120
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify)				0			0	0	0	0
Total	**7**	**314**	**0**	**314**	**35**	**0**	**35**	**349**	**0**	**349**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
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
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**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	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	1	31	0	31	1	0	1	32	0	32
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	1	51	0	51	0	0	0	51	0	51
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**3**	**82**	**0**	**82**	**1**	**0**	**1**	**83**	**0**	**83**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**38**	**794**	**439**	**1233**	**87**	**108**	**195**	**881**	**547**	**1428**

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	2	59	14	73	3	2	5	62	16	78
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
Micro Irrigation/irrigation	1	42	0	42	2	0	2	44	0	44
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	0	0	0	0	0	0	0	0	0	0
Soil & water conservatioin	1	32	4	36	3	0	3	35	4	39
Integrated nutrient management	2	52	2	54	2	0	2	54	2	56
Production of organic inputs	1	39	0	39	0	0	0	39	0	39
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**7**	**224**	**20**	**244**	**10**	**2**	**12**	**234**	**22**	**256**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume 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	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	2	0	43	43	0	0	0	0	43	43
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (a)	**2**	**0**	**43**	**43**	**0**	**0**	**0**	**0**	**43**	**43**
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	2	7	41	48	0	2	2	7	43	50

Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (b)	**2**	**7**	**41**	**48**	**0**	**2**	**2**	**7**	**43**	**50**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (c)	**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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (d)	**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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology	1	24	0	24	0	0	0	24	0	24
Processing and value addition	1	0	30	30	0	2	2	0	32	32
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (f)	**2**	**24**	**30**	**54**	**0**	**2**	**2**	**24**	**32**	**56**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GT (a-g)	**6**	**31**	**114**	**145**	**0**	**4**	**4**	**31**	**118**	**149**
III Soil Health and Fertility Management										
Soil fertility management	2	55	0	55	0	0	0	55	0	55
Integrated water management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	26	0	26	2	0	2	28	0	28
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	0	0	0	0	0	0	0	0	0	0
Balance use of fertilizers	1	28	0	28	1	0	1	29	0	29
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**4**	**109**	**0**	**109**	**3**	**0**	**3**	**112**	**0**	**112**
IV Livestock Production and Management										
Dairy Management	1	36	0	36	4	0	4	40	0	40
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
Animal Nutrition Management	4	87	44	131	17	8	25	104	52	156
Disease Management	3	112	0	112	17	0	17	129	0	129
Feed & fodder technology	2	59	0	59	15	0	15	74	0	74
Production of quality animal products	2	71	0	71	10	0	10	81	0	81
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**12**	**365**	**44**	**409**	**63**	**8**	**71**	**428**	**52**	**480**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	7	41	48	0	11	11	7	52	59
Design and development of low/minimum cost diet	2	0	33	33	0	22	22	0	55	55
Designing and development for high nutrient efficiency diet	2	0	78	78	0	5	5	0	83	83
Minimization of nutrient loss in processing	2	0	35	35	0	29	29	0	64	64
Processing and cooking	1	0	53	53	0	0	0	0	53	53
Gender mainstreaming through SHGs	1	0	35	35	0	4	4	0	39	39
Storage loss minimization techniques	2	0	84	84	0	0	0	0	84	84
Value addition	3	15	104	119	0	16	16	15	120	135
Women empowerment	0	0	0	0	0	0	0	0	0	0

Location specific drudgery reduction technologies	3	0	85	85	0	14	14	0	99	99
Rural Crafts	0	0	0	0	0	0	0	0	0	0
Women and child care	2	2	35	37	0	25	25	2	60	62
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**20**	**24**	**583**	**607**	**0**	**126**	**126**	**24**	**709**	**733**
VI Agril. Engineering										
Farm Machinary and its maintenance	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	2	51	0	51	2	0	2	53	0	53
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	2	51	0	51	0	0	0	51	0	51
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**4**	**102**	**0**	**102**	**2**	**0**	**2**	**104**	**0**	**104**
VII Plant Protection										
Integrated Pest Management	8	414	0	414	40	0	40	454	0	454
Integrated Disease Management	6	215	0	215	21	0	21	236	0	236
Bio-control of pests and diseases	1	39	0	39	2	0	2	41	0	41
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**15**	**668**	**0**	**668**	**63**	**0**	**63**	**731**	**0**	**731**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0
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
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X CapacityBuilding and Group Dynamics										
Leadership development	1	27	0	27	0	0	0	27	0	27
Group dynamics	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	2	31	22	53	1	1	2	32	23	55
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	2	86	0	86	0	0	0	86	0	86
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**5**	**144**	**22**	**166**	**1**	**1**	**2**	**145**	**23**	**168**
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
Others (pl specify)	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**73**	**1667**	**783**	**2450**	**142**	**141**	**283**	**1809**	**924**	**2733**

Training for Rural Youths including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	1	0	35	35	0	0	0	0	35	35
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	1	0	35	35	0	0	0	0	35	35

Training for Rural Youths including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of										

farm machinery and implements										
Value addition	1	0	35	35	0	0	0	0	35	35
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL	1	0	35	35	0	0	0	0	35	35

Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	0	29	29	0	0	0	0	29	29
Integrated Nutrient management	1	32	0	32	0	0	0	32	0	32
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	**2**	**32**	**29**	**61**	**0**	**0**	**0**	**32**	**29**	**61**

Training programmes for Extension Personnel including sponsored training programmes (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										

Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL										

Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	1	0	29	29	0	0	0	0	29	29
Integrated Nutrient management	1	32	0	32	0	0	0	32	0	32
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	**2**	**32**	**29**	**61**	**0**	**0**	**0**	**32**	**29**	**61**

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	**5**	**234**	**12**	**246**	**16**	**4**	**20**	**250**	**16**	**266**
Commercial production of vegetables	**1**	**24**	**0**	**24**	**0**	**0**	**0**	**24**	**0**	**24**
Production and value addition										
Fruit Plants	**1**	**54**	**0**	**54**	**5**	**0**	**5**	**59**	**0**	**59**
Ornamental plants	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Spices crops	**1**	**69**	**0**	**69**	**9**	**0**	**9**	**78**	**0**	**78**
Soil health and fertility management	**3**	**83**	**15**	**98**	**18**	**3**	**21**	**101**	**18**	**119**
Production of Inputs at site	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Methods of protective cultivation	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Others (pl. specify)	**1**	**68**	**0**	**68**	**8**	**0**	**8**	**76**	**0**	**76**
Total	**12**	**532**	**27**	**559**	**56**	**7**	**63**	**588**	**34**	**622**
Post harvest technology and value addition										
Processing and value addition	**1**	**18**	**0**	**18**	**0**	**0**	**0**	**18**	**0**	**18**
Others (pl. specify)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**1**	**18**	**0**	**18**	**0**	**0**	**0**	**18**	**0**	**18**
Farm machinery										
Farm machinery, tools and implements				**0**			**0**	**0**	**0**	**0**

Others (pl. specify)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Livestock and fisheries										
Livestock production and management	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Animal Nutrition Management	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Animal Disease Management	**1**	**15**	**0**	**15**	**0**	**0**	**0**	**15**	**0**	**15**
Fisheries Nutrition	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Fisheries Management	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Others (pl. specify)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**1**	**15**	**0**	**15**	**0**	**0**	**0**	**15**	**0**	**15**
Home Science										
Household nutritional security	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Economic empowerment of women	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Drudgery reduction of women	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Others (pl. specify)	**1**	**0**	**24**	**24**	**0**	**6**	**6**	**0**	**30**	**30**
Total	**1**	**0**	**24**	**24**	**0**	**6**	**6**	**0**	**30**	**30**
Agricultural Extension										
CapacityBuilding and Group Dynamics	**1**	**45**	**0**	**45**	**2**	**0**	**2**	**47**	**0**	**47**
Others (pl. specify)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**1**	**45**	**0**	**45**	**2**	**0**	**2**	**47**	**0**	**47**
GRAND TOTAL	**16**	**610**	**51**	**661**	**58**	**13**	**71**	**668**	**64**	**732**

Name of sponsoring agencies involved

Details of vocational training programmes carried out by KVKs for rural youth

Area of training	**No. of Courses**	**No. of Participants**								
		General			**SC/ST**			**Grand Total**		
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	**Male**	**Female**	**Total**
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition	**2**	**0**	**63**	**63**	**0**	**13**	**13**	**0**	**76**	**76**
Others (pl. specify)				**0**			**0**	**0**	**0**	**0**
Total	**2**	**0**	**63**	**63**	**0**	**13**	**13**	**0**	**76**	**76**
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										

Others (pl. specify)										
Total										
Grand Total	**2**	**0**	**63**	**63**	**0**	**13**	**13**	**0**	**76**	**76**

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	1	1287		1287
Diagnostic visits	64	230	22	252
Field Day	9	520	2	522
Group discussions	24	362		362
KisanGhosthi	74	486	8	494
Film Show	24	648		648
Self -help groups				0
KisanMela				0
Exhibition	7	2668	2	2670
Scientists' visit to farmers field	248	478	12	490
Plant/animal health camps	2	76	6	82
Farm Science Club				0
Ex-trainees Sammelan				0
Farmers' seminar/workshop	16	448		448
Method Demonstrations				0
Celebration of important days	2	494	4	498
Special day celebration	3	957	3	960
Exposure visits	4	125		125
Others Training programme under PPV &FRA , Unnat Bharat Abhiyan, special kisangosthi on "Jai Kisan jai vigyanDiwas" and Special campaign on "Management of pink bollworm in Bt. Cotton" (pl.specify)	4	1020	5	1025
Total	**482**	**9799**	**64**	**9863**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	10
Newspaper coverage	8
Popular articles	2
Radio Talks	0
TV Talks	0
Animal health amps (Number of animals treated)	76
Others (pl. specify)	
Total	**96**

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only	76	70	24	31	86	32	319
	Voice only	223	262	35	52	107	289	968
	Voice & Text both	-	-	-		-	-	-
	Total Messages	**299**	**332**	**59**	**83**	**193**	**321**	**1287**

	Total farmers Benefitted	**299**	**332**	**59**	**83**	**193**	**321**	**1287**

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies	5	152	
	Lectures organised	23	302	Major Kharif crops, animal nutrition, Women Empowerment and Micro irrigation system
	Exhibition			
	Film show	5	302	Crop Package of Practicies, Animal Nutrition, Women Nutrition and Child Development
	Fair			
	Farm Visit	5	302	
	Diagnostic Practicals			
	Distribution of Literature (No.)	15	302	Crop Package of Practicies and Child nutrition
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)	62	62	
	Bio Fertilizers (q)	12	12	
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week		302	

VI. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	GW-496		216	410000	
Oilseeds	Groundnut	GG-20		34.5	163000	
Pulses	Black Gram	Guj.Udad-1		1.92	15000	
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds						

Fiber crops						
Forest Species						
Others						
Total						

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial	Tomato	JT-3		200	0	12
	Brinjal	GJB-2		200	0	12
	Brinjal	GJB-3		200	0	12
Vegetable seedlings						
Fruits						
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
Fodder crop saplings						
Forest Species						
Others						
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers	Azotobacter culture	54 (500 ml)	3240	22
	PSB culture	59 (500 ml)	3540	25
	Rhizobium culture	4(500 ml)	240	3
Bio-pesticide	Trichoderma	497	34790	127
	Beauveria Bassiana	450	67500	286
Bio-fungicide				
Bio Agents				
Others				
Total				

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Total				

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	250	250	42	-
Water				
Plant				
Manure				
Others (pl.specify)				
Total	**250**	**250**	**42**	**-**

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted
Pipalia (Rajkot-II)	1

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution

X. PUBLICATIONS

Category	Number
Research Paper	4
Technical bulletins	0
Technical reports	4
Others (pl. specify)	

XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM

Activities conducted				
No. of Training programmes	**No. of Demonstration s**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**
-	-	--	-	-

XII. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES ETC

Introduction of alternate crops/varieties

Crops/cultivars	Area (ha)	Extent of damage	Recovery of damage through KVK initiatives if any
Total			

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

Livestock components	Number of interactions	No. of participants
Total		

Animal health camps organised

Number of camps	No. of animals	No. of farmers
2	**76**	**76**
Total	**76**	**76**

Seed distribution in drought hit states

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

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total		

Awareness campaign

	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												

XIII. DETAILS ON HRD ACTIVITIES

A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Junagadh Agricultural University	New frontiers of Agricultural Technologies	1	--------	8
Total		**1**	----------	**8**

B. HRD activities organized in identified areas for KVK staff by ATARI

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Total			

XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAIL AS PER THE FOLLOWING FORMAT)

Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics

a) ***Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise***
b) ***Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise***
c) ***Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product***

The general format for preparing the above case studies are furnished below

Name of the KVK

TITLE

Introduction

KVK intervention

Output

Outcome

Impact

XVPLEASE INCLUDE INFORMATION, WHICH HAS NOT BEEN REFLECTED ABOVE (WRITTEN IN DETAILS)

8.1 Celebration of Technology Week:

Technology week was celebrated at KrishiVigyan Kendra, J.A.U., Pipalia during 22th to 26th Sept, 2015. In which following different 302 farmers and farm women from different block were participated.

Date	Taluka	Villages	Numbers of participants		
			Male	Female	Total
22.9.2015	Jam Kandorna, Dhoraji	Satodad, Motimarad	67	0	67
23.9.2015	Dhoraji	Jamnavad, Pipaliya	60	0	60
24.9.2015	Jam Kandorna, Dhoraji	Boriya, Bhola	56	0	56
25.9.2015	Dhoraji	Vadodar, Supedi	61	0	61
26.9.2015	Jetpur	Pedhala, Mandlikpur,Pipalia	9	49	58
Total			**253**	**49**	**302**

Dr. N.B.JadavProgramme Coordinator, KVK, J.A.U., Pipalia welcomed all the participants, officers and dignitaries of the technology week-2015 and highlighted the achievements of the centre in brief.

Agricultural Technology Week was celebrated by KVK, J.A.U., Pipalia during 22th to 26th September, 2015. The programme was chaired by Dr. A.M.Parakhia, Director of Extension Education, JAU, Junagadh inaugurated function by lighting the lamp. In his presidential speech he told that KrishiVigyan Kendra is work as an agricultural information hub for the district. He also said that training is the important for farmers and farm women to update their knowledge of new research and technology in agriculture. He advised farmers to participate more and more to refine their agricultural knowledge.

After inaugural function, different scientists of KVK have given talk on different subjects and information from the KrishiVigyan Kendra. The day to day activities are as under. In a week, out of 5 days, 1 day was for specially farm women and MinaxiBariya, SMS (Home Science) has delivered different lecture to rural farm women on nutrition and drudgery reduction technology. Dr. V.J. Prajapati, SMS (AH), delivered different lecture on milk production and management of live stock. Programme Co-ordinator (Dr. N.B. Jadav) and Shree. S.V. Undhad, SMS, (Plant Protection) delivered different lecture on following topics with presentation.

Themes of the Technology Week:

1. **1st day:** Pest and disease management in major *Kharif* crops
2. **2nd day:** Package of practices of major *Rabi* crops
3. **3rd day:** Management of white grub in groundnut and pink boll worm in cotton
4. **4th day:** Clean milk production and management of live stock
5. **5th day:** Rural farm women nutrition and Drudgery reduction technologies in agriculture

Following are the topics delivered by scientist

- Value addition in fruits and vegetables
- Importance of kitchen gardening
- Safe storage of food grains
- Drudgery reduction technology in agriculture
- Clean milk production
- Balance nutrition of farm animal
- Awareness about artificial insemination and knowledge about vaccination
- Recycling for farm waste material and composting

- Vermin compost and organic farming
- Control and management of pink boll worm in cotton
- Whit grub in groundnut and their management
- Integrated pest and disease management in *kharif* crops
- Cultivation of vegetables in green houses
- Emphasizes on adverse effect of climate change in agriculture

At the end of the technology week-2015, farmers appreciated by the work done by the KVK. They encourage for modern agriculture and they satisfy for the technology week.

8.2 Participation in KrishiMahotsav:

(a) KrushiMahotsav- 2015

Progroamme of KrushiMahotsav at District Panchayat seat for two days with seminar and exhibition, our three scientists delivered number of lecture in Krushimahtosav -15. In exhibition one stall allotted to KrishiVigyan Kendra, Pipalia, In stall one scientisit remain present and advise to farmers about its problems and selling of university production (Trichoderma, Bivaria, Azotobacter, PSB and vegetable seeds) and distribution of farmer useful extension literature.

Sr. No.	Name of Scientist	Place	Date	Lecture deliered	Benificires		Total
					Male	Female	
1.	Dr.N.B.Jadav (Taluka nodal) Dr.V.S.Prajapati F.P.Kargatiya	Patanvav (Motimarad)	22-4-2015	3	955	237	1182
			23-4-2015	-	115	35	150
2.	Dr.N.B.Jadav (Taluka nodal) Dr.V.S.Prajapati F.P.Kargatiya	Atkot	25-4-2015	3	678	581	1259
			26-4-2015	-	164	100	264
3.	Dr.N.B.Jadav (Taluka nodal) Dr.V.S.Prajapati F.P.Kargatiya	MotiPaneli (Upleta)	27-4-2015	3	685	175	860
			28-4-2015	-	62	6	68
4.	Dr.N.B.Jadav (Taluka nodal) Dr.V.S.Prajapati F.P.Kargatiya	Samdhiyala (Upleta)	1-5-2015	3	574	228	802
			2-5-2015	-	82	9	91

(b) Rabi-Krushi Mahotsav-2015

Programme of Rabi KrushiMahotsav at APMC taluka place, our three scientist delivered number of lecture in Rabi-Krushi mahotsav-2015.

Sr. No.	Name of Scientist	Place/Taluka	Date	Lecture deliered	Benificires		Total
					Male	Female	
1.	Dr.N.B.Jadav (Taluka nodal) Sh.S.V.Undhad Dr.V.S.Prajapati F.P.Kargatiya	APMC, Upleta	31-12-2015	4	840	232	1092
2.	Dr.N.B.Jadav (Taluka nodal) Sh.S.V.Undhad Dr.V.S.Prajapati F.P.Kargatiya	APMC, Dhoraji	1-1-2016	4	995	225	1230
3.	Dr.N.B.Jadav (Taluka nodal) Sh.S.V.Undhad Dr.V.S.Prajapati F.P.Kargatiya	Lions school Ground, Jetpur	3-1-2016	4	572	457	1062

8.3 Special Campaign on "Management of Pink Bollworm in Bt Cotton":

1) Off Campus Traiing

Sr.No.	Date	Village	Taluka	Ditrict	Beneficiries
1	4/8/2015	Vadodar	Dhoraji	Rajkot	63
2	11/8/2015	Arab Timbadi	Jetpur	Rajkot	50
3	28/8/2015	Nagvadar	Upleta	Rajkot	115
4	31/8/2015	Patanvav	Dhoraji	Rajkot	110
				Total	338

2)On Campus Training:

Sr. No.	Date	Training name	No. Participant	Particulars	Remarks
1	6/8/2015	KrishiSammelan	320	Participation of farmers and farm women from different 6 talukas of Rajkot districts	Lecture delivered by Dr.K.L. Raghwani, Professor and Head, Deptt. Of Agril. Entomology
2.	17/8/2015	Training of ATMA farmers friends	58	Farmers friend of five talukas of ATMA, Rajkot	Lecture delivered by KVK scientist
3.	-	Sponsored training by Jetpurtaluka Agro Association	150	Input Dealer	Lecture delivered by shri.S.V.Undhad

4. Diagnostic visit: 12 at different farmers field

5. Telephonic guidance: 82

6. Poster distribution: 600 poster and 92 village covered

8.4 Celebrtion of World Soil Day and Pre-Rabi KrushiSammelan:

Word Soil Daywas celebrated at KrishiVigyan Kendra, J.A.U., Pipalia on 5th December 2015. In which 325 farmers and farm women from different Taluka of KVK Jurisdiction had participated.

Sr. No	Particulars	Detail
1	Name of the ICAR Institute /SAUs	Junagadh Agricultural University, Junagadh
2	Venue	KrishiVigyan Kendra, Pipalia (Rajkot-II)
3	Total No. of participants attended the function	325
4	No. of Soil Health Card Distributed	250
5	Name of the Dignitary(s) graced the occasion	1. ShriJasabhaiBaradsir, Hon. Minister (State) Agriculture & Civil Aviation Gandhinagar, Gujarat 2. Dr. A R Pathak, Hon. Vice Chancellor, JAU, Junagadh. 3. Dr A M Parakhia, Director of Extension Education, JAU, Junagadh.

Dr A M Parakhia, Director of Extension Education, J.A.U., Junagadh welcomed all the participants, officers and dignitaries attending the world soil day 2015 function and briefed on the soil health card and its importance.

Dr A R Pathak, Hon. Vice Chancellor, J.A.U., Junagadh highlighted the event and motivated the farmers about the importance of soil health.

ShriJasabhaiBaradsir, Hon. Minister (State) Agriculture & Civil Aviation, Gandhinagar, Gujarat covered different topics like efficient and balanced use of fertilizers, soil health, encouraged for soil and water testing, use of chemical fertilizer only on the basis of recommendations in soil health card in his talk.

During this programme 250 soil health cards were distributed among different farmers of KVK Pipalia (Rajkot-II) jurisdiction by the honorable guests.

In the technical session lectures delivered on different subjects like method for collecting soil and water sample, efficient use of chemical fertilizers, integrated pest and disease management for Rabi crops and techniques for increasing milk production and animal care.

8.5 Pre-KharifKrishiSammelan :

Pre KharifKrishiSammelan was conducted during 6-8-2015 at KrishiVigyan Kendra, Junagadh Agricultural University, Pipalia. In which number of farmers and farm women were participated from different villages of KVK jurisdiction. Our scientist delivered lecture on different kharif crop package of practices and insect-pest management.

Sl No.	Name of the state	Name of District/KVK	Date on which conducted	Number of participants		Name of public representative	Fund (Rs.) if any from NHB	
				Farmers	Other		Yes	No.
1.	Gujarat	Pipalia (Rajkot-II)	6/8/2015	320	30	Ex-MLA Srimati. JasumatibenKorat	-	No.

8.6 Celebration of "MahilaKrushiDiwas" :

MahilaKrushiDiwaswas celebrated at KrishiVigyan Kendra, J.A.U., Pipalia on 6th August, 2015. In which 169 farm women from different Taluka of KVK Jurisdiction had participated.

Following lecture delivered by KVK Scientist

1. Activities of KrishiVigyan Kendra, Pipalia – Dr. N. B. Jadav
2. Contribution of women in agriculture- M. K. Bariya
3. Management of Pink Bollworm in cotton- Shri.S.V.Undhad
4. Clean milk Production – Dr.V.S.Prajapati

Sr.No.	Village	Taluka	No. of farm women
1	Bhadajadiya	Dhoraji	14
2	Motimarad	Dhoraji	11
3	NaniParabadi	Dhoraji	14
4	Pithadiya	Jetpur	02
5	Jetpur	Jetpur	13
6	Rayadi	Jamkandorana	15
7	Jasapar	JamKandorana	18
8	Tarvada	Jamkandorana	13
9	Samdhiyala	Upleta	28
10	Ladha	Upleta	11
11	Biliyala	Gondal	30
			169

8.7 Kisan Gosthi on "Jai Kisan Jai Vigyan" Diwas :

Kisan Gosthi was conducted under the programme of "Jai Kisan Jai Vigyan" at M.P. adopted Rayadi village of Jamkandorana Taluka during 24th December -2015 and 174 farmers of Rayadi and nearby villages were participated. Dr.A.M.Parakhia, Director of Extension, Junagadh Agricultural University, Junagadh was remain present and covered different topics of *rabi* crops management. He also emphasized on use bio-product for control of pest and disease.

Name of KVK	Date of Kisangosthi organized	Name of village of AdarshSansad Gram	Number of Participants
KrishiVigyan Kendra, Pipalia (RAJKOT-II), Dhoraji, Gujarat	24th December, 2015	Rayadi, Ta: Jam-Kandorna, Dist: Rajkot	174

8.8 "Mera Gaon Mera Gaurav" Scheme :

The Mera Gaon Mera Guarav scheme was implemented during the year 2015-16. Under this scheme, first following two groups of scientists were formed for village selection and base line survey.

Sr. No.	Name of Officer/Scientist
Group -A	1. M. K. Bariya 2. Dr. V. S. Prajapati
Group-B	1. Shri S. V. Undhad 2. Shri F. P. Kargathia

These two groups were selected following ten different villages of KVK Jurisdiction. Finally the team of scientists & villages were selected by Director of Extension Education, JAU, Junagadh. The list of team of scientist & villages as under this scheme, in adopted villages different extension activities like farmer meeting, Kisan Gosthi, Mobile based advisory, literature provided, etc were carried out.

Sr. No.	Name of village
1	Patanvav
2	Torania
3	Zanzamer
4	Arani
5	Pedhala
6	Gundala
7	Jasapar
8	Chachan
9	Satodal
10	Chitravad

Team Formation and village selection

Sr. No	Team Number	Office\Department	Officer's Name	Name of village
1	27	KVK, JAU, Pipalia	Dr. N. B. Jadav (Convener) M. K. Bariya Shri S. V. Undhad	1. Patanvav 2. Torania 3. Zanzamer 4. Arani 5. Pedhala
2	28	KVK, JAU, Pipalia	Dr. V. S. Prajapati (Convener) Shri N. M. Pithiya Shri F. P. Kargathiya	1. Gundala 2. Jasapar 3. Chachan 4. Satodal 5. Chitravad

8.9 Shiv Yog Healing experiment :

Report of Shivyog and Recommended practices Experiments on different crops:

1. Soil analysis

Before sowing:-

ECds/m	pH	O.C.%	P_2O_5 Kg/ha	K_2O Kg/ha	Micronutrients (ppm)			
					Fe	Mn	Cu	Zn
0.55	7.81	0.96	22.05	783.0	3.02	4.81	1.08	0.15

After harvesting:- **Under process**

2. Detail of Common practices

Crop/ Practices	**Okra**	**Black gram**	**Sorghum**
Date of sowing	23/06/2015	23/06/2015	23/06/2015
Spacing	45 x 30 cm	45 x 10 cm	45 x 15 cm
No of Inter- culturing	Two	Two	Two
No of Hand weeding	Three	Two	Two
No of Irrigation	Five	Two	Three

3. Fertilizer dose (N-P-K kg/ha) :-

Tretments/ Crops	**Okra**	**Black gram**	**Sorghum**
Recommended practices	100-50-50	20-40-0	80-40-0

Shivyog practices	Nil	Nil	Nil

4. Pest and disease management

Crop	Tretments	Spraying Detail
Okra	Recommended practices	1. Novaluron 1 ml/l + imidacloprid 5.0 ml/l at 25 DAS 2. Imidacloprid 0.5 ml/l + Chloropyriphos 1.0 ml/l at 40 DAS 3. Imamectin benzoate 0.5 g/l + Azadirictin 1ml/l at 55 DAS 4. Spinosad 0.5 g/l at 70 DAS
	Shivyog practices	1. Cow urine + Neem oil 3 ml/l at 60 and 75 DAS
Black gram	Recommended practices	1. Acetamaprid 0.5 g/lit + Novaluron 1ml/lit at 25 DAS 2. Imidacloprid 0.5 ml/lit + (Mancozeb+ Carbendazim) 1g/lit at 40 DAS
	Shivyog practices	1. Cow urine + Neem oil 3 ml/l at 45 and 60 DAS
Sorghum	Recommended practices	1. Novaluron 1 ml/l + imidacloprid 5.0 ml/l at 25 DAS 2. (Mancozeb+ Carbendazim) 1g/lit + Imamectin benzoate 0.5g/lit at 40 DAS 3. Mancozeb+ Carbendazim 1g/lit at 55 DAS
	Shivyog practices	1. Cow urine + Neem oil 3 ml/l at 60 and 75 DAS

5. Germination (%), Vigour, growth of the plants/crops.

Character	Shivyog practices			Recommended practices		
	Okra	Black gram	Sorghum	Okra	Black gram	Sorghum
Germination %	70	60	78	75	65	80
Vigour	medium	good	good	good	good	good
Plant Height(cm)	103	45	231	163	56	247

6. Flowering (50%) and maturity days.

Character	Shivyog practices		Recommended practices	
	Black gram	Sorghum	Black gram	Sorghum
Flowering (50%)	40	70	35	60
Maturity days	100	110	100	110

Okra (Picking & yield detail):-

No of Picking	Date of Picking	Yield of Recommended practices	Yield of Shivyog practices
1st picking	20/08/2015	10 kg	7 kg
2nd picking	24/08/2015	12 kg	8 kg

3rd picking	26/08/2015	13 kg	7 kg
4th picking	28/08/2015	7.5 kg	4.5 kg
5th picking	31/08/2015	6.5 kg	3.5 kg
6th picking	03/09/2015	9.0 kg	6 kg
7th picking	07/09/2015	16 kg	10 kg
8th picking	09/09/2015	14 kg	9 kg
9th picking	11/09/2015	16 kg	9 kg
10th picking	14/09/2015	18 kg	10.5 kg
11th picking	17/09/2015	18.5 kg	10.5 kg
12th picking	21/09/2015	21 kg	13 kg
13th picking	24/09/2015	19 kg	8 kg

7. Yield (Kg/ha)

Treatments	**Crop yield (Kg/ha)**		
	Okra	Black gram	Sorghum
Shivyog Practices	7066	533	95
Recommended practices	12065	733	120

8. Quality of the product :- we are sending a produce seed sample of both practices along with report.

8.11 Exposure Visit of farmers:

Sr.No.	**Date**	**Scientist**	**Village**	**No. of participant**	**Place visited**
1.	10-9-2015	Dr.N.B.Jadav	Jamkandorana, Jetpur, Dhoraji, Upleta	90	DGR, Ivnagar for "Groundnut fair cum Exhibition"
2.	16-1-2015	S.V.Undhad	MotaGundala	39	Mohanbhai Patel farm at Dhoraji
3.	18-1-2015	M.K.Bariya	Motiparabadi	27	JAU, Junagadh

8.12 Dignitries /Scientist visit:

Sr.No.	**Dignitries/Scientist**	**Date**	**Purpose of visit**
1.	ShriJasabhaiBaradsir, Hon. Minister (State) Agriculture & Civil Aviation Gandhinagar, Gujarat	5-12-2015	To Participate in celebration of "World Soil Day"

2.	Dr.A.R.Pathaksir Hon. Vice chancellor JunagadhAgril. University Junagadh	2-3-2015	KVK-visit
		9-9-2015	KVK-Visit
		5-12-2015	To Participate in celebration of "World Soil Day"
3.	Dr.A.M.Parakhia Director of Extension Education JunagadhAgril.University Junagadh	2-3-2015	KVK-visit
		9-9-2015	KVK-Visit
		5-12-2015	To Participate in celebration of "World Soil Day"
		24-12-2015	KisanGoshti at Rayadi
		26-9-2015	To Participate in Celeberation of Technology Week
		14-10-2015	KVK-Visit
		9-9-2015	KVK-Visit
		7-11-2015	KVK-Visit
		6-8-2015	KVK-Visit
		9-6-2015	KVK-Visit
4.	Dr.I.U.Dhruj Associate Director of Research JunagadhAgril.University Junagadh	1-1-2016	To participate in Rabi Krushi Mahotsav-2015 at Dhoraji and KVK-Visit
5.	Dr. V. J. Bhatiya Nodal Scientist Mega seed, JAU, Junagadh	3-3-2015	To visit seed production of Groundnut
		13-1-2015	To visit seed production of wheat
6.	Dr.H.M.Gajipara Planning Officer JAU, Junagadh	26-5-2015	KVK-Visit

Training Programme under UnnatBhartAbhiyan

Six days training programme were organized by KVK, JAU, Pipaliaunder UnnatBhartAbhiyan during 26thto 31st March, 2016. In this programme total 180 farmers were participated. Every day four scientists have been delivered lecture on different area to developed skill and knowledge of the farmers, *viz*Package of practices in main pulse crops, Reduce post harvest losses in Kharif pulses, Management of pest and diseases in Kharif groundnut, Cultivation practices in pulses and oilseeds and Different methods of mulching in summer groundnut. The details of the training programme as under:

Sr. No.	Date	Village	No of participants
1.	26/03/2016	Fareni	30
2.	27/03/2016	Fareni	30
3.	28/03/2016	NaniParbadi	30
4.	29/03/2016	NaniParbadi	30
5.	30/03/2016	Patanvav	30
6.	31/03/2016	Patanvav	30

"PPV & FRA" Awareness cum Training Programme

One day awareness cum training programme on "Protection of Plant Variety and Farmers' Right Act-2001" was held at Krishi Vigyan Kendra, Junagadh Agricultural University, Pipalia (Rajkot-II), Gujarat during 26th Feb, 2016. In which total 124 farmers from 23 villages, covering 5 Talukas out of 7 Talukas of KVK Operational area had participated in this training programme. Dr. N. B. Jadav, Senior Scientist and

Head, KVK, Pipalia welcomed all the participants,Officers and dignitaries of the programme and highlighted the achievements and various activities carried out at the centre in brief.

The chief guest of the programme, Dr. A.M. Parkhia, Director of Extension Education, Junagadh Agricultural University, Junagadh, inaugurated the programme by lighting the lamp.

After inaugural of the function the session was handed over to Dr. V. P. Chovatiya, (Specialization: Plant Breeding and Genetics), Principal, College of Agriculture, JAU, Amreli who delivered the lecture on "Protection of plant variety ". The lecture included plant protection variety act, the process and necessity of patent, knowhow of the different rules and regulation of the act. The next lecture was of Dr. M.D. Khanpara, Research Scientist, (PI: DUS Project), Millet Research Station, JAU, Jamnagar delivered the lecture on "Farmers Right Act-2001".

After lunch break Shri. S.V. Undhad, Scientist from Krishi Vigyan Kendra, gave information about acquiring, filling and sending the form of indigenous variety registration. The information was handy for the Farmers. One hour's session for farmers questionnaire was followed which seemed quite interesting. Many of the farmers were keen to know about the act and had many queries which were discussed with the specialists.

Dr. A. M. Parakhia, DEE, JAU, Junagadhin his key note address informed participants about the importance of the programme and emphasized on more horizontal spread of protection of plant variety act by farmers. At the end of the programme participants appreciated the information they received on the different topics.

Finally, the meeting was ended by performing the vote of thanks by Dr. M. K. Bariya, Scientist, KVK, Pipalia.