

ANNUAL ACTION PLAN 2014-15



KRISHI VIGYAN KENDRA
NAVSARI AGRICULTURAL UNIVERSITY
DEDIAPADA, DIST: NARMADA, GUJARAT
Ph: 02649234501 email: kvk_narmada@yahoo.in

Thrust area:

1. Increasing the production of major crops (Paddy, Pigeon pea, Wheat, Pulses and Cotton).
2. Horticulture in rain fed area.
3. Fruits and vegetables in irrigated area
4. Conservation of soil and water resources.
5. Income generation by imparting skill training.
6. Women empowerment.
7. Improved livestock management practices.

Operational Clusters

No	Taluka	Cluster	Village
1.	Dediapada	1	Kukarda, Ambavadi, Chikda, Kakarpada, Vadivav, Kalbi
		2	Pansar, Navagam, Besna, Kankala, Nivalda
		3	Solia, Pangam , Gajar gota, kolivada
		4	Zarnavadi, Almavadi, Ghodi, Chuli, Mandala
2.	Sagbara	5	Nanadoraamba, Nana kakdiaamba, Turavadi, Makran, Bodvav
		6	Taval, Panchpipli, Motidevrupen, Nanidevrupen, pat.Bor aambli
3.	Nandod	7	Vadi, Kasumbia, Samshepura, Zer
		8	Khutaamba, Motibhamri, Amla, Movi
4	Tilakvada	9	Tilakvada, Nimpura, Kuletha, Jaloda
Total Villages			43

1. Training Programme (On and Off Campus)

Sr. No.	Discipline	ON CAMPUS				OFF CAMPUS				GT
		I	II	III	IV	I	II	III	IV	
1.	Crop Production	1	2	1	2	2	2	1	1	12
2.	Horticulture	1	2	1	2	2	2	1	1	12
3.	Home Science*	1	2	1	2	2	2	1	1	12
4.	Animal Science	1	2	1	2	2	2	1	1	12
5.	Plant Protection	1	2	1	2	2	2	1	1	12
6.	Extension Education	1	2	1	2	2	2	1	1	12
7.	Others	2	2	2	2	2	2	2	2	16
Total		8	14	8	14	14	14	8	8	88

*Vacant posts

DETAILS OF TRAININGS WITH TITLE:**1.1 ON CAMPUS TRAINING (FOR PRACTICING FARMERS, FARM WOMEN AND RURAL YOUTHS)**

Subject	Title of training	Month	Duration (days)	No. of participants	Type of participants
QUARTER-I					
Crop Production	Scientific cultivation of major kharif crops	April-14	2	25	PF
Horticulture	Scientific cultivation of major vegetable crops	May 14	2	25	PF
Home Science	Health and care of mother and baby	May 14	2	25	FW
Animal Science	Feeding pattern of supplementation mineral mixture to dairy animal for health, reproduction and milk production	May 14	2	25	PF
Plant Protection	Insect-Pest Management in major kharif crops	May-14	2	25	PF
Extension Education	Banking credit procedure with special reference to KCC	June-14	2	25	FW
QUARTER-II					
Crop Production	Production of organic inputs- composting and vermi-compost	July-14	2	25	RY
Crop Production	Weed management in Kharif crops	August-14	2	25	FW
Horticulture	Nursery management	July-14	2	25	FW
Horticulture	INM in vegetable crops	July-14	2	25	FW
Home Science	Minimization of nutrient loss in cooking	August-14	2	25	PF
Home Science	Sewing and tailoring	August-14	2	25	PF
Animal Science	Methods for artificial insemination techniques	September-14	2	25	EF
Animal Science	Selection criteria to milch animals	September-14	2	25	EF
Plant Protection	Use of bio pesticides in insect pests management	July-14	2	25	EF
Plant Protection	Integrated pest management	July-14	2	25	EF

Extension Education	Use of ICT in agriculture	August-14	2	25	EF
Extension Education	Value addition through seed production	September-14	2	25	EF
QUARTER-III					
Crop Production	Water conservation technologies for rain fed farming	Oct-14	2	25	PF
Horticulture	Management of mango orchards	Oct-14	2	25	EF
Home Science	Entrepreneurship development of rural women	November-14	2	25	FW
Animal Science	Heat detection techniques in animals.	November-14	2	25	FW
Plant Protection	Importance of seed treatments in field crops	December-14	2	25	FW
Extension Education	Value addition in pulses	December-14	2	25	PF
QUARTER-IV					
Crop Production	Role of micronutrients in crop production	January-15	2	25	PF
Crop Production	Production of organic inputs- composting and vermi-compost	February-15	2	25	RY
Horticulture	Management of banana orchards	March-15	2	25	RY
Horticulture	Management of pomegranate orchards	January-15	2	25	RY
Plant Protection	Insect pests management in summer crops	February-15	2	25	EF
Plant Protection	Use of Neem and other plant products in insect pests management	March-15	2	25	EF
Home Science	Importance of SHGS	January-15	2	25	FW
Home Science	Benefits of vegetables in daily diet	February-15	2	25	FW
Animal Science	Establishment of dairy unit	March-15	2	25	RY
Animal Science	Feeds and fodder management in milch animals	January-15	2	25	FW
Extension Education	Transfer of technology in agriculture	February-15	2	25	PF
Extension Education	Formation of farmers club and its importance	March-15	2	25	PF

1.2 OFF CAMPUS TRAINING (FOR FARMERS, FARM WOMEN AND RURAL YOUTHS)

Subject	Title of training	Month	Duration (days)	No. of participants	Type of participants
QUARTER-I					
Crop Production	Nursery raising for kharif crops	April-14	1	25	PF
Crop Production	Fertilizers management in kharif crops	April-14	1	25	PF
Horticulture	Kitchen Garden	May-14	1	25	FW
Horticulture	Scientific cultivation of Brinjal crop	May-14	1	25	FW
Plant Protection	Bio control of crop pests -Conservation of natural enemies	June-14	1	25	PF
Plant Protection	Integrated insect pests and disease management in cotton	June-14	1	25	PF
Extension Education	Importance of Farm Science Club	June-14	1	25	PF
Extension Education	Importance of ITC in agriculture	June -14	1	25	PF
Animal Science	Scientific management of newly born calves	May-14	1	25	FW
Animal Science	Vaccination in Dairy animal	June-14	1	25	PF
Home Science	Formation of SHGs	June-14	1	25	FW
Home Science	Nutritional security through kitchen gardening	May-14	1	25	FW
QUARTER-II					
Crop Production	Use of bio fertilizers in crop plants	July-14	1	25	RY
Crop Production	Weed management in kharif crops	August-14	1	25	FW
Horticulture	Cultivation Practices of Brinjal	July-14	1	25	PF
Horticulture	Cultivation Practices of Chilly	July-14	1	25	PF
Plant Protection	Plant protection equipments and spraying technologies	Aug-14	1	25	PF
Plant Protection	Biological control of crop pests	Sept-14	1	25	PF
Extension Education	Value addition and marketing of Agriculture produce	Sept-14	1	25	PF
Extension Education	Value addition and marketing of dairy produce	Sept-14	1	25	PF
Animal Science	Care of dairy animal before and after Calving.	July-14	1	25	FW
Animal Science	Dairy Cattle housing	Aug-14	1	25	FW

Home Science	Formation of SHGS	Aug-14	1	25	FW
Home science	Nutritional security through Kitchen Gardening	July-14	1	25	FW
QUARTER-III					
Crop Production	Scientific cultivation of major Rabi crops	Oct-14	1	25	PF
Horticulture	Scientific cultivation of onion crops	Oct-14	1	25	PF
Plant Protection	Integrated pest management in cotton	Oct-14	1	25	PF
Extension Education	Kisan Credit Card : importance and procedure	Nov-14	1	25	PF
Animal Science	Urea treatment to Paddy straw	Dec-14	1	25	PF
Home Science	Importance of storage of Grains	Dec-14	1	25	FW
QUARTER-IV					
Crop Production	Scientific cultivation of Summer groundnut	Jan-15	1	25	PF
Horticulture	Cultivation practices of Okra	Jan-15	1	25	PF
Plant Protection	IPDM in summer crops	Jan-15	1	25	FW
Animal Science	Vaccination in Dairy animal	Feb-15	1	25	PF
Home Science	Benefits of Vegetables in daily diet.	Feb-15	1	25	FW
Extension Education	Marketing strategy for agricultural produce	March-15	1	25	PF

PF=Practicing farmers FW=Farm women RY=Rural youth EF=Extension functionaries

1.3 VOCATIONAL TRAININGS

Subject	Title of training	Month	Duration (days)	No. of participants	Type of participants
QUARTER-III					
Home Science	Sewing Class	April-14	30	10	RY/FW
QUARTER-IV					
Plant Protection	Handling & Care of Spraying Equipment	Aug-14	7	25	RY
Crop Production	Maintains & Care Farm Machinery	Sept.14	7	20	RY

2. Front Line Demonstration: (Kharif-Rabi 14-15)

S.N.	Subject	Crop	Area (ha.)	No. of Demonstration
1	Crop Protection	Pigeon pea Vaishali	12	30
2		Pigeon pea GT-101, GT-1	4	10
3		Paddy GR 5, Paddy IR-28 (Drilled), GR-9	12	30
4		Paddy NAUR-1	5	12
5		Paddy GNR-2	5	12
6		Sesamum GT-2	5	10
7		Wheat GW -496	12	30
8		Soybean JS-335	5	13
9		Gram GG-3, PKV-2	12	30
10		Sugar cane	6	15
11	Plant Protection	Cotton (IPM)	6	15
12		Paddy (IPM)	6	15
13		Sorghum (Seed treatment for shootfly)	6	15
15		Paddy (Sheath mite+Grain discoloration)	6	15
16		Pigeon pea (Trichoderma)	6	15
17		Chickpea (Trichoderma)	6	15
18		Chilli (Pseudomonas)	5	14
19		Brinjal (Pseudomonas)	5	14
20	Animal Husbandary	Feeding of mineral mixture to buffaloes	--	20
21		Urea treatment to paddy straw	--	5
22		Teat dipping with KMnO4 in cross bred cows	--	50
23		Fodder Sorghum/Fodder beet	12	30
24	Horticulture	Banana INM	6	15
25		Tomato GT-2	6	15
		Brinjal Surati ravaiya	6	15
	TOTAL FLDs		154	460

2.1 DETAILS OF FRONT LINE DEMONSTRATIONS (Pulse)

Title of Demo.	Objectives	Variety	Farming Situation	Area (ha)	No. of Demo /farmers	Existing Technology	Scientific Technology Intervention	Critical inputs	Remarks
Oilseeds									
Sesamum	popularize new variety	GT-2	Irri-	5	10	Use of local variety	Introduction of new crop	Seed Bio-fertilizer	Summer-15
Pulses									
Pigeon pea	popularize new	Vaishali	Rainfed	12	30	<ul style="list-style-type: none"> ▪ Use of old/local variety ▪ No seed treatment 	<ul style="list-style-type: none"> ▪ Use of new variety ▪ Seed treatment 	Seed Bio-fertilizer	Kharif'14
Pigeon pea	popularize new	GT-101 GT-1	Rainfed	2 2	5 5	<ul style="list-style-type: none"> ▪ Use of old/local variety ▪ No seed treatment 	<ul style="list-style-type: none"> ▪ Use of new variety ▪ Seed treatment 	Seed Bio-fertilizer	Kharif'14
Soybean	popularize new variety	JS-335	Rainfed	5	13	<ul style="list-style-type: none"> ▪ Less area Cultivation ▪ No seed treatment 	<ul style="list-style-type: none"> ▪ Introduction of new crop 	Seed Bio-fertilizer	Kharif'14
Gram	popularize new variety	GG-3 PKV-2	Rainfed	6 6	15 15	<ul style="list-style-type: none"> ▪ Less area Cultivation ▪ No seed treatment 	<ul style="list-style-type: none"> ▪ Use of new variety ▪ Seed treatment 	Seed Bio-fertilizer	Rabi'14

2.2 DETAILS OF FRONT LINE DEMONSTRATIONS (Other than Oilseeds /pulses)

Title of Demo.	Objectives	Variety	Farming Situation	Area (ha)	No. of Demo /farmers	Existing Technology	Scientific Technology intervention	Critical inputs	Remarks
Paddy (Drilled)	Introduction of new variety	GR-5,	Rainfed	4	10	-Use of local variety	-Use of new variety	Seed Bio-fertilizer	Kharif' 14
		IR-28		4	10				
		GR-9		4	10				
Paddy (T.P.)	Introduction of new variety	NAUR-1 GNR-2	Rainfed	10	24	-Use of local variety	-Use of new variety -Seed treatment	Seed Bio-fertilizer	Kharif' 14
Wheat	popularize new variety	Gw-496	Irri	12	30	-Use of local variety	-Use of new variety -Seed treatment	Seed Bio-fertilizer	Rabi '14
Sugar Cane	IWM	--	Irri	6	15	-No use of chemical	-Use of New Herbicides	Herbicides	Rabi '14
Plant Protection									
Cotton	To minimize the use of pesticides	-	Rainfed	6	15	Only chemical method of pest control	IPM	Neem based pesticides, B.bassiana Acetamipride , Yellow Sticky Trap	Kharif' 14
Paddy	To minimize the use of pesticides	-	Rainfed	6	15	Only chemical method of pest control	IPM	Neem based pesticides, B.Bassiana Acetamipride Pheromone Trap	Kharif' 14
Sorghum	Control of Shoot Fly	-	Rainfed	6	15	No use of chemicals	Seed treatment	Thiamethoxam 70 WS	Kharif' 14
Paddy	Control of Sheath mite and grain discoloration	-	Rainfed	6	15	No use of chemicals	Spraying	Ethion 50 EC 0.05% + Mancozeb 75 WP 0.25%	Kharif' 14
Bio-agents									
Pigeon pea	Control of	Vaishali	Rainfed	6	15	No use of bio-	Biological control	Trichoderma culture	Kharif' 14

	wilt disease					agents			
Chilly (Pseudomonas)	Control of wilt disease	---	Irrigated	6	15	No use of bio- agents	Biological control	Pseudomonas culture	Kharif' 14
Chick pea	Control of wilt disease	GG-2	Rainfed	6	15	No use of bio- agents	Biological control	Trichoderma culture	Rabi '14
Brinjal (Pseudomonas)	Control of wilt disease	Surati Ravaiya	Irrigated	6	15	No use of bio- agents	Biological control	Pseudomonas culture	Kharif' 14
Vegetables									
Tomato	popularize new	New Variety GT-2	Irrigated	6	15	Use of old/ local variety No seed Treatment	Use of new variety	Seed Bio-fertilizer	Rabi'14
Brinjal	popularize new	New Variety Surti Ravaiya	Irrigated	6	15	Use of old/ local variety -No seed treatment	Use of new variety	Seed Bio-fertilizer	Rabi'14
Banana	INM	Efficient use of fertilizers	Irrigated	6	15	• Use of Excess or less quantity of fertilizers • No use of bio fertilizers • No use of FYM	Integrated Nutrient Management	Recommended dose of Chemical fertilizers - Bio fertilizers	Rabi'14

2.3 Animal Husbandry

Sr. No	Technology to be demonstrated	Objective	No. of Farmer	Types / No of Animals	Observation	Critical inputs
1.	Mineral Mixture	To popularize Mineral Mixture Supplementation	20	Buffalo-40	Service period (day)	Powder Mineral mixture
2.	Urea treatment to Paddy straw	To introduce urea treatment	5	Cow/ Buffalo	Milk production (lit/day)	Urea + plastic cloth
3.	Teat dipping	To Control the Mastitis	50	Cow/ Buffalo	Udder infection	Powder Potassium permanganate
4.	Fodder Sorghum/ Fodder beet	To popularize New fodder	30	Cow/ Buffalo	Fodder Yield	Fodder seed

3. On Farm Testing

3.1 OFT: On going

1. Assessment of stem application method of insecticide for management of sucking pest in cotton
2. Management of Helicoverpa armigera in Indian bean by Non chemical means
3. Effect of supplementing mineral mixture and concentrate on Body growth performance in calves
4. Assessment of feasibility of hand operated automatic seed drill in hilly area of Narmada District
5. Assessment of different genotypes of chickpea in Narmada district

3.2 New On Farm Testing

Title: 1 Assessment of brinjal variety Arka Anand (F1 hybrid) resistant to bacterial wilt under Narmada district of Gujarat (Horticulture)

Problem diagnose/defined	In this area farmers faced huge problem of bacterial wilt on brinjal field. The tribal people are not much aware its control practice and loose brinjal yield upto 20- 70%.
Source of variety/technology	Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bangalore
Specific Benefits:	Increased productivity and reduction in cost of cultivation and suitable for growing during both kharif and rabi seasons
Details of technologies selected for assessment	T1: Farmer Adopted local Variety T2: Adopting of Arka Anand T3: Available NAU resistance line or other line
Production system/thematic area	Irrigated
Thematic area	Production
Performance of the technology with performance indicators	

Title:2 Assessment of tomato variety Arka Abhijit (F1 hybrid) resistant to bacterial wilt suitable for fresh market under Narmada district of Gujarat (Horticulture)

Problem diagnose/defined	In this area farmers faced huge problem of bacterial wilt and leaf curl in tomato field. The tribal people are not much aware its control practice and loose tomato yield in high level.
Source of variety/technology	Indian Institute of Horticultural Research, Hessarghatta Lake Post, Bangalore
Specific Benefits:	Increased productivity and reduction in cost of cultivation and suitable for growing during both kharif and rabi seasons
Details of technologies selected for assessment	T1: Farmer Adopted local Variety T2: Adopting of Arka Abhijit T3: Available NAU resistance line or other line
Production system/thematic area	Irrigated
Thematic area	Production
Performance of the technology with performance indicators	-
Final recommendation for micro level -	
Constraints identified and feedback for research	

Title: Effect of supplementation of concentrate and mineral mixture on milk production of Local buffalo breed of Narmada district. (Animal Husbandry)

Livestock production in all its ventures is a source of income and for all livestock owners livestock feeding and nutrition is a major concern. Inadequate nutrition is a major cause of low live-weight gains, infertility and low milk yields in dairy cattle. The aim of the OFT is about the awareness of dairy farmers to know the nutritional management of milch animals to increase milk yield and Fat%. Therefore, the above entitle OFT has been proposed.

Treatment:

- Treatment 1 : Routine Farmer Practice
- Treatment 2 : Feeding of concentrate mixture (3kg/animal/day)
- Treatment 3 : Feeding of concentrate mixture (3kg/animal/day) + Mineral mixture (50 gm/animal/day)

Experimental Animals: 15 (5 Animals/treatment)

Observations to be recorded: Milk yield (Lit/day),
Milk Fat %,

4. Extension activities

SN	Activity	Total
1	2	3
1.	Field days	15
2.	Kisanmela / Farmers day	1
3.	Agricultural exhibition	10
4.	Farmers Sibir	10
5.	World Day	1
6.	Women in Agri. Day	1
7.	Diagnostic services	As per need
8.	Lecture to be delivered in other programme	As per need
9.	Distribution of seeds on cost bases	4 Tonnes
10	Soil & water sample analysis	As per need
10.	Publications	As per need
	Paper	10
	Popular Articles	25
	Folders	20
11.	Communication media	
	(i) Radio talk	As per allotment
	(ii) TV / Film show	As per need
	(iii) News paper coverage	As per need
12.	Animal Health Camp	6

Seeds to be produce during 2014-15

Sr. No.	Crop	Variety	Area (ha)	Estimated production (Kg)
1	Pigeon pea	Vaishali	2	1600 kg
2	Paddy	GNR-2	1	4000 kg
3	Paddy	NAUR-1	1	4000 kg
4	Paddy	GR-5	2.5	3500 kg
3	Paddy	IR-28	2.5	4200 kg

4	Soybean	JS-335	1	600 kg
5	Gram	GG-2	3	2200 kg
6	Niger	Guj. Nig. -1	0.5	200 kg
7	Green Gram	Meha	2	1000 kg

Demonstrations at KVK

S.N.	Demonstration
1	Drip Irrigation
2	Kitchen Garden
3	Vermi compost Unit
4	Medicinal Garden
5	Ideal Dairy Unit
6	Crop Museum
7	Azola Unit

Infrastructure needed

S.N.	Infrastructure	Estimate Cost (Lakhs)
1	Wall Fencing	15.0
2	Vehicle Shed	05.0
3	Threshing yard	10.0
4	Farm road	12.0

Budget Requirement

Particulars	2014-15
A.Recurring	
Pay & Allowances	Rs.110.50
TA	Rs.2.00
HRD	Rs.0.20
Contingencies	Rs.10.20
TOTAL(A)	Rs.122.90
B. Non-Recurring	
Works	Rs.30.00
Equipments & Furniture	Rs.22.20
Vehicles	Rs.0.00
Livestock	Rs.00.00
Library	Rs.0.30
REVOLVING FUND	Rs.0.00
TOTAL(B)	Rs.52.50
GRAND TOTAL(A+B)	Rs.175.40