



ANNUAL ACTION PLAN

01-04-2013 TO 31-03-2014



Krishi Vigyan Kendra

Navsari Agricultural University

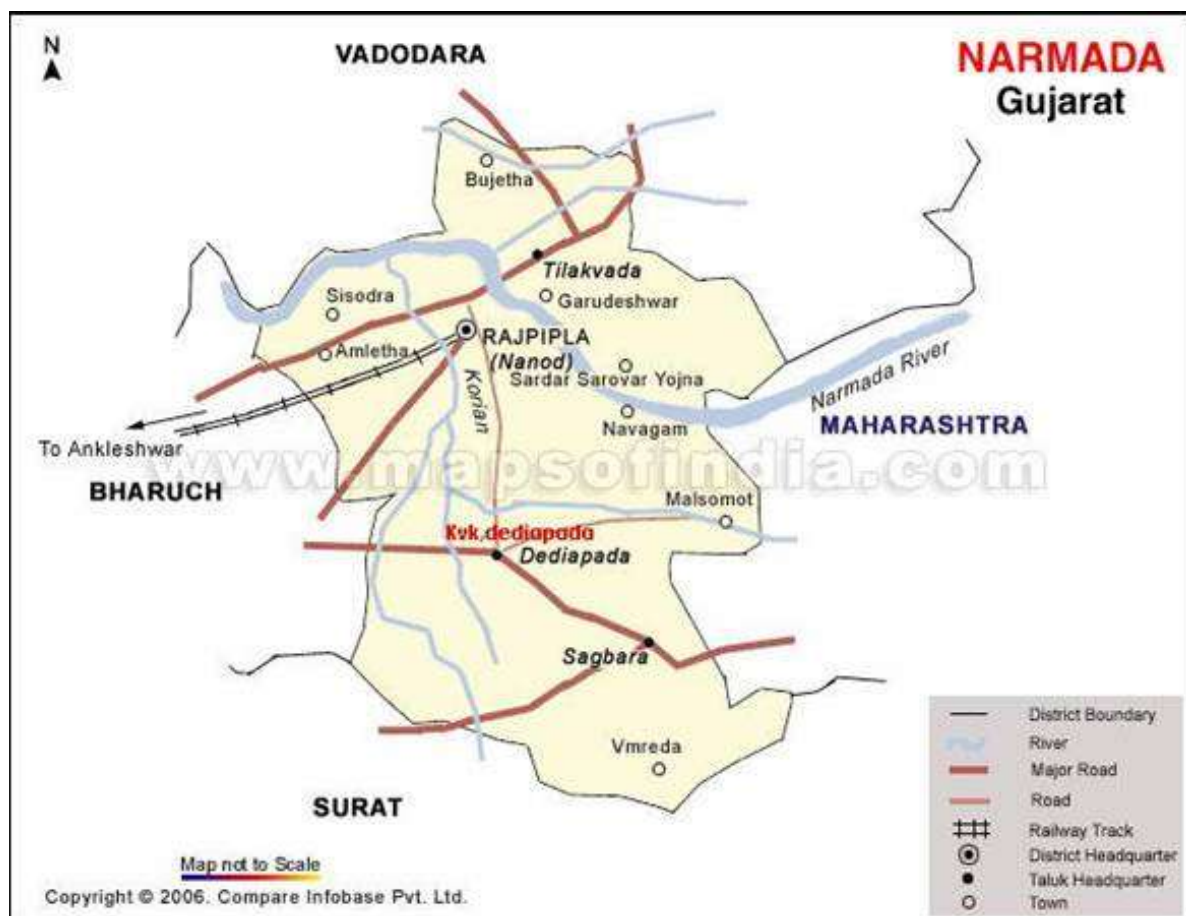
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ANNUAL ACTION PLAN

(1/4/2013 to 31/03/2014)



NAVSARI AGRICULTURAL UNIVERSITY



KRISHI VIGYAN KENDRA
NAVSARI AGRICULTURAL UNIVERSITY
DEDIAPADA, DIST: NARMADA, GUJARAT

Thrust area:

1. Increasing the production of major crops (Paddy, Pigeon pea, Wheat, Pulses and Cotton).
2. Horticulture in rainfed area.
3. Fruit 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, Kalgi
		2	Pansar, Navagam, Besna,
		3	Solia, Nanasukaamba, Rakhaskundi
		4	Zarnavadi, Almavadi, Jambar, Chuli, Nivalda
2.	Sagbara	5	Taval, Jargam, Panchpipli, Motirupen, Nanadoramba, Kanbudi
3.	Nandod	6	Vadi, Kasumbia, Samsheerpura, Zer
		7	Khutaamba, Motibhamri, Aml, Movi
4	Tilakvada	8	Nimpura, kuletha, Jaloda

1. Training Programme (April'13 to March'14)

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
<i>*Vacant posts</i>										

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					
CropProduction	Scientific cultivation of major kharif crops	April-13	1	25	PF
Horticulture	Scientific cultivation of major vegetable crops	May 13	1	25	PF
Home Science	Health and care of mother and baby	May 13	1	25	FW
Animal Science	Feeding pattern of supplementation mineral mixture to dairy animal for health, reproduction and milk production	May 13	1	25	PF
PlantProtection	Insect-Pest Management in major kharif crops	May-13	1	25	PF
Extension Education	Banking credit procedure with special reference to KCC	July-13	1	25	FW
QUARTER-II					
CropProduction	Production of organic inputs- composting and vermi-compost	July-13	1	25	RY
CropProduction	Weed management in Kharif crops	July-13	1	25	FW

Horticulture	Nursery management	July-13	1	25	FW
Horticulture	INM in vegetable crops	July-13	1	25	FW
Home Science	Minimization of nutrient loss in cooking	May-13	1	25	PF
Home Science	Sewing and tailoring	May-13	1	25	PF
Animal Science	Methods for artificial insemination techniques	June-13	1	25	EF
Animal Science	Selection criteria to milch animals	June-13	1	25	EF
PlantProtection	Use of bio pesticides in insect pests management	July-13	1	25	EF
PlantProtection	Integrated pest management	Aug-13	1	25	EF
Extension Education	Use of ICT in agriculture	Sept-13	1	15	EF
Extension Education	Value addition through seed production	Sept-13	1	15	EF
QUARTER-III					
CropProduction	Water conservation technologies for rain fed farming	Oct-13	1	25	PF
Horticulture	Management of mango orchards	Oct-13	1	25	EF
Home Science	Entrepreneurship development of rural women	Oct-13	1	25	FW

Animal Science	Heat detection techniques in animals.	July-13	1	25	FW
Plant Protection	Importance of seed treatments in field crops	Oct-13	1	25	FW
Extension Education	Value addition in pulses	Oct-13	1	25	PF
QUARTER-IV					
CropProduction	Role of micronutrients in crop production	Jan-14	1	25	PF
CropProduction	Production of organic inputs- composting and vermi-compost	Feb-14	1	25	RY
PlantProtection	Insect pests management in summer crops	Feb-14	1	25	EF
PlantProtection	Use of Neem and other plant products in insect pests management	Feb-14	1	25	EF
Home Science	Importance of SHGS	Oct-13	1	25	FW
Home Science	Benefits of vegetables in daily diet	Oct-13	1	25	FW
Animal Science	Establishment of dairy unit	Nov-13	1	25	RY
Animal Science	Feeds and fodder management in milch animals	Nov-13	1	25	FW
Extension Education	Transfer of technology in agriculture	Jan-14	1	25	PF

Extension Education	Formation of farmers club and its importance	Jan-14	1	25	PF
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PF=Practicing farmers FW=Farm women RY=Rural youth EF=Extension functionaries

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					
CropProduction	Nursery raising for kharif crops	April-13	1	25	PF
CropProduction	Fertilizers management in kharif crops	April-13	1	25	PF
Horticulture	Kitchen Garden	April-13	1	25	FW
Horticulture	Scientific cultivation of Brinjal crop	April-13	1	25	FW
Plant Protection	Bio control of crop pests -Conservation of natural enemies	June-13	1	25	PF
Plant Protection	Integrated insect pests and disease management in cotton	June-13	1	25	PF
ExtensionEducation	Importance of Farm Science Club	July-13	1	25	PF
ExtensionEducation	Importance of ITC in agriculture	July -13	1	25	PF

Animal Science	Scientific management of newly born calves	Aug-13	1	25	FW
Animal Science	Vaccination in Dairy animal	June-13	1	25	PF
Home Science	Formation of SHGs	June-13	1	25	FW
Home Science	Nutritional security through kitchen gardening	June-13	1	25	FW
QUARTER-II					
CropProduction	Use of bio fertilizers in crop plants	July-13	1	25	RY
CropProduction	Weed management in kharif crops	August-13	1	25	FW
Horticulture	Cultivation Practices of Brinjal	July-13	1	25	PF
Horticulture	Cultivation Practices of Chilly	July-13	1	25	PF
Plant Protection	Plant protection equipments and spraying technologies	Aug-13	1	25	PF
Plant Protection	Biological control of crop pests	Sept-13	1	25	PF
Extension Education	Valueaddition and marketingofAgriculture produce	Sept-13	1	25	PF
Extension Education	Valueaddition and marketingofdairy produce	Sept-13	1	25	PF
Animal Science	Care of dairy animal before and after Calving.	July-13	1	25	FW
Animal Science	Dairy Cattle housing	August-13	1	25	FW
Home Science	Formation of SHGS	May-13	1	25	FW

Home science	Nutritional security through Kitchen Gardening	July-13	1	25	FW
QUARTER-III					
CropProduction	Scientific cultivation of major Rabi crops	Oct-13	1	25	PF
Horticulture	Scientific cultivation of onion crops	Oct-13	1	25	PF
Plant Protection	Integrated pest management in cotton	Oct-13	1	25	PF
Extension Education	Kisan Credit Card : importance and procedure	Nov-13	1	25	PF
Animal Science	Urea treatment to Paddy straw	Dec-13	1	25	PF
Home Science	Importance of storage of Grains	Dec-13	1	25	FW
QUARTER-IV					
CropProduction	Scientific cultivation of Summer groundnut	Jan-14	1	25	PF
Horticulture	Cultivation practices of Okra	Jan-14	1	25	PF
Plant Protection	IPDM in summer crops	Jan-14	1	25	FW
Animal Science	Vaccination in Dairy animal	Jan-14	1	25	PF
Home Science	Benefits of Vegetables in daily diet.	Jan-14	1	25	FW
Extension Education	Marketing strategy for agricultural produce	March-14	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	Bakery Class	April-13	15	10	RY
QUARTER-IV					
Plant Protection	Mushroom cultivation technique	Aug-13	7	25	RY
Crop production	Production of organic inputs	Sept-13	7	20	RY

2. Front Line Demonstration: (Kharif-Rabi 2013-14)

S.N.	Crop	Area (ha.)	No. of Demonstration
1	Pigeon pea Vaishali	12	30
2	Pigeon pea GT-101	2	5
3	Paddy GR 5 (Drilled Paddy) Paddy GR-9 (Drilled Paddy) Paddy IR-28 (Drilled Paddy)	12	30
4	Paddy NAUR-1	5	12
5	Paddy GNR-2	5	12
6	Maize GM-6	2	10
7	Soybean JS-335	5	13
8	Cotton (IPM)	5	14
9	Paddy (IPM)	5	14
10	Pigeon pea (Trichoderma)	5	14
11	Brinjal (Pseudomonas)	5	14
12	Feeding of mineral mixture to buffalos	--	20
13	Urea treatment to paddy straw	--	5
14	Teat dipping with KMnO ₄ in cross bred cows	--	25
15	Gram GG-2	5	14
16	Tomato INM	5	14
17	Brinjal INM	5	14
	Total	78	260

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									
Pulses									
Pigeon pea	To popularize new variety	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' 13
Pigeon pea	To popularize new variety	GT-101	Rainfed	2	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' 13
Soybean	To popularize new variety	JS-335	Rainfed	5	13	<ul style="list-style-type: none"> ▪ Less area under cultivation ▪ No seed treatment 	<ul style="list-style-type: none"> ▪ Introduction of new crop 	Seed Bio-fertilizer	Kharif' 13
Gram	To popularize new variety	GG-2	Rainfed	5	14	<ul style="list-style-type: none"> ▪ Less area under cultivation ▪ No seed treatment 	<ul style="list-style-type: none"> ▪ Introduction of new crop 	Seed Bio-fertilizer	Rabi 13

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)	To introduce new variety	GR-5, GR-9 IR-28	Rainfed	12	30	▪ Use of local variety	▪ Use of new variety	Seed	Kharif' 13
Paddy (T.P.)	To introduce new variety	NAUR-1 GMR-2	Irrigated	10	24	▪ Use of local variety	▪ Use of new variety	Seed	Kharif' 13
Maize	To popularize new variety	GM-6	Rainfed	2	10	▪ Use of old/local variety ▪ No seed treatment	▪ Use of new variety ▪ Seed treatment	Seed	Kharif' 13
IPM									
Cotton	To minimize the use of pesticides	-	Rainfed	5	14	▪ Only chemical method of pest control	IPM	Pheromone trap, Lures, Neem based pesticides, <i>B. bassiana</i>	Kharif' 13
Paddy	To minimize the use of pesticides	-	Rainfed	5	14	▪ Only chemical method of pest control	IPM	Pheromone trap, Lures, Neem based pesticides, <i>B. bassiana</i>	Kharif' 13
Bio-agents									
Pigeon pea	Control of wilt disease	Vaishali	Rainfed	5	14	▪ No use of bio-agents	▪ Biological control	<i>Trichoderma</i> culture	Kharif' 13

Brinjal (Pseudomonas)	Control of wilt disease	SuratiRavaiya	Irrigated	5	14	▪No use of bio- agents	▪Biological control	<i>Pseudomonas</i> culture	Kharif 13
Vegetables									
Tomato	INM	-	Rainfed	5	14	▪Use of Chemical fertilizer only	▪Use of INM	Biofertilizer, FYM,	Rabi-13
Brinjal	INM	-	Rainfed	5	14	▪Use of Chemical fertilizer only	▪Use of INM	Biofertilizer, FYM,	Rabi-13

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	25	Cow/ Buffalo	Udder infection	Powder Potassium permanganate

3. On Farm Testing

OFT: On going

1. Effect of supplementing mineral mixture and concentrate on Body growth performance in calves
2. Assessment of stem application method of insecticide for management of sucking pest in cotton
3. Management of *Helicoverpa armigera* in Indian bean by Non chemicals means
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

4. Extension activities

SN	Activity	Total
1.	Field days	2
2.	Kisanmela / Farmers day	1
3.	Agricultural exhibition	1
4.	Scientist farmers interaction	2
5.	Diagnostic services	As per need
6.	KishanGhosti	5
7.	Shibir	5
8.	Scientists visits to farmers fields	As per need
9.	Lecture to be delivered in other programme	As per need
10.	Distribution of seed on cost basis	4 T
11.	Communication media	
	(i) Radio talk	As per allotment
	(ii) TV / Film show	25
	(iii) News paper coverage	5
12.	Animal Health Camp	1

5. TECHNICAL FEED BACK FOR RESEARCH:

- Studies on suitable local rainfed paddy variety for this area.
- High yielding varieties for rainfed farming situation (Jowar, Pigeon pea, Cotton)
- Development of late *kharif* pigeon pea variety (Due to late sowing)
- Development of varieties suitable for undulating land in Main crops - Paddy, Pigeon pea and Jowar.
- Development of suitable mix cropping / intercropping module for rainfed area.
- Suitable variety for Green gram and Urd bean cultivation.
- Development of agro techniques for local paddy varieties
- Seed production of paddy, sorghum and pulses is needed to mitigating the needs of the farmers.
- Research should be focus on milch breed in the area
- Suitable varieties of vegetables for undulating land
- Research to be done on post harvest management (PHT) of custard apple.
- Suitable *kharif* vegetables varieties for rain fed condition. (Brinjal, Papdi, tomato and Chilli)
- Wilt resistance varieties for Brinjal.

6. Scientific feedback for research

- Identification of suitable varieties for inter / relay cropping system
- Research should be initiated on cropping system in hilly rain fed area
- Management of tur pod fly and *Maruca* sp. in pigeon pea
- Management of thrips in banana through stem injection technique.
- Research should be focus on milch breed in the area
- Sudden wilting of brinjal plant at the time of flowering/ fruiting just like Para-wilt of cotton.

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