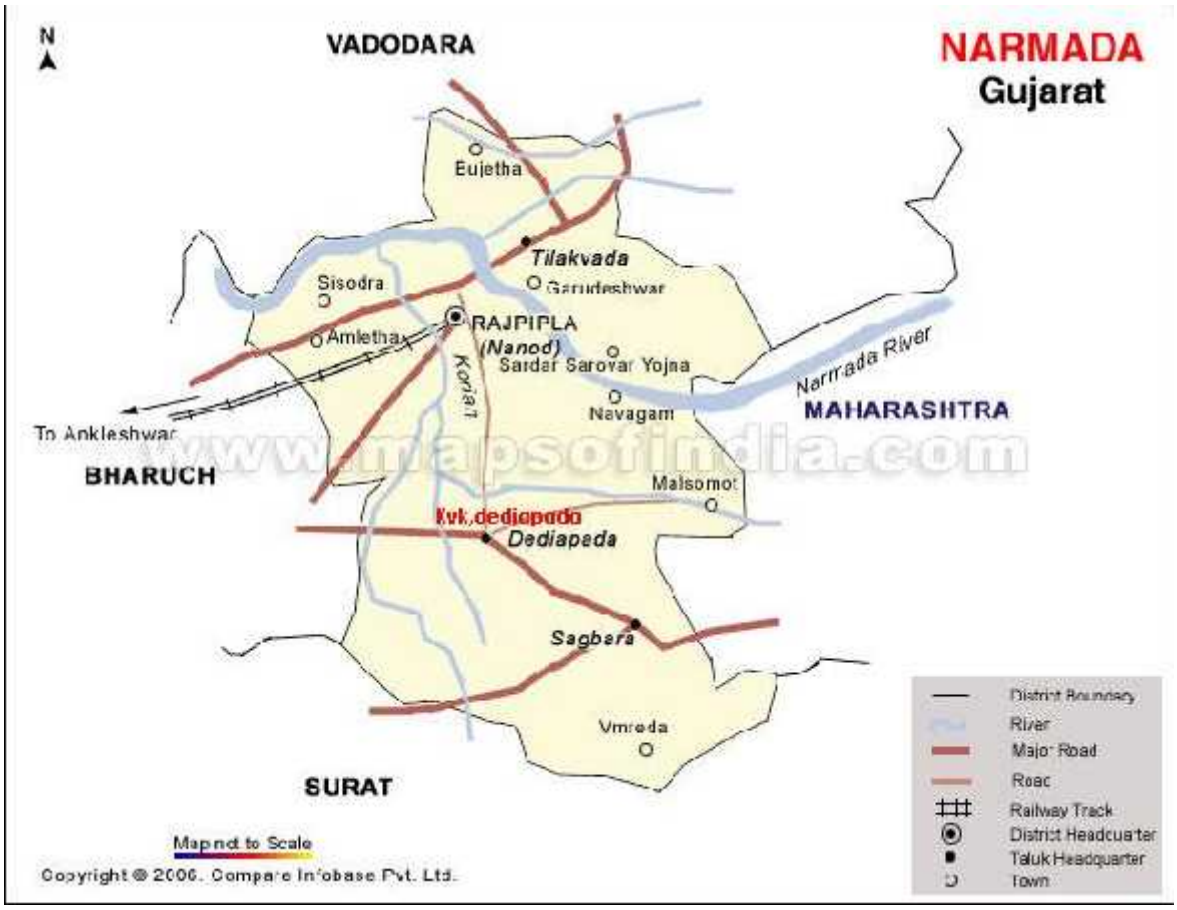
KRISHI VIGYAN KENDRA, DEDIAPADA

ANNUAL ACTION PLAN : 2009-2010



MAJOR THRUST AREA

1. Increasing the production of major crops (Paddy, Pigeon pea, Wheat, Pulses and Cotton) by adopting recommended production technologies.
2. Popularize arid horticultural fruit crops in rainfed area and fruit and vegetables in irrigated area.
3. Creating awareness about conservation of soil and water resources.
4. Creating the scope of income generation from other vocation by imparting skill training.
5. Organizing activities for women empowerment.
6. Motivate the farmers about improved livestock management practices in the area.

QUARTER-WISE SUMMARY OF ANNUAL ACTION PLAN FOR THE YEAR 2009-10 (OCTOBER-2009 TO SEPTEMBER-2010)

1. TRAINING PROGRAMMES

S.N.	Discipline	ON CAMPUS																				TOTAL ON CAMPUS				OFF CAMPUS				GT
		PF				FW				RY				EF				Sponsored												
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	
1.	Crop Production	1	1	1	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	1	1	3	1	3	1	3	2	**15**
2.	Horticulture	2	1	-	1	-	-	1	-	-	1	1	-	-	-	-	-	1	-	1	-	3	2	3	1	3	3	2	3	**20**
3.	Home Science	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**
4.	Live Stock Production	1	-	1	-	-	2	-	1	-	-	1	-	1	-	1	-	1	-	-	-	3	2	3	1	4	2	2	2	**19**
5.	Plant Protection	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	2	2	2	2	**12**
6.	Extension Education	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	1	1	-	**04**
7.	Any other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	-	**02**
	Total	5	3	3	3	-	2	1	1	-	1	3	-	2	-	2	-	2	2	1	-	9	08	10	04	13	09	10	09	**72**

I = October-08 to December-08
II = January-09 to March-09
III = April-09 to June-09
IV = July-09 to Septrmber-09

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

2. FRONT LINE DEMONSTRATION

Sr. No.	Particulars of the FLD	Season	Crop	Area (ha.)	No. of demo.	Remarks
I.	**Production technology**					
(A)	Oil seed	Kharif'10	Soybean	10	20	JS-335
		Kharif'10	Castor	5	15	GCH-5/ GCH-7
(B)	Pulses	Rabi'09-10	Gram	10	20	GG-2
		Kharif'10	Pigeon pea	5	12	Vaishali
(C)	Vegetables	Rabi'09-10	Onion	2	10	NHRDF/AFLR
		Summer'10	Okra	2	10	GOH-2
II.	**Component demo.**					
	ICM	Rabi'09-10	Wheat	10	25	GW-322
		Kharif'10	Paddy (drilled)	10	25	GR-5
	INM	Rabi'09-19	Tomato	2	10	INM
		Kharif'10	Chilli	2	10	INM
		Kharif'10	Brinjal	2	10	INM
	IPM	Kharif'10	Cotton	5	10	
III.	**Use of bio-agents**					
	Trichoderma	Rabi'09-10	Chickpea	5	10	
	Trichoderma	Kharif'10	Pigeon pea	5	10	
IV	Other demonstration					
	Kitchen Garden	-	Vegetables	0.4	25	Kitchen garden model
	Mineral mixture	-	-	-	20	LPM
	Urea treatment to paddy straw	-	-	-	5	LPM
	Concentrate feeding to kid	-	-	-	10	LPM
	Total			**75.4**	**257**	

3. ON FARM TESTING

1. Low yield of chilly.
2. Low yield of wheat
3. Effect of supplementing mineral mixture and concentrate on body growth performance in calves.

4. EXTENSION ACTIVITIES

SN	Activity	Total
1	2	3
1.	Field days	5
2.	Kisan mela / Farmers day	1
3.	Agricultural exhibition	10
4.	Scientist farmers interaction	2
5.	Farm Science Club	2
6.	Mahila mandal	-
7.	World Food Day	1
8.	Women in Agri. day	1
9.	Diagnostic services	
	(i)Farmers visit to KVK	85
	(ii)Scientists visits to farmers fields	40
10.	Lecture to be delivered in other programme	
11.	Distribution of seed on cost basis	4 Ton
12.	Soil & water sample analysis	-
13.	Publication	
	(i) Research Paper	-
	(ii)Popular articles	4
	(iii) Folders	4
14.	Communication media	
	(i) Radio talk	-
	(ii) TV / Film show	2
	(iii) News paper coverage	12
	(iv) Telephone helpline	40
15.	Animal health camp	4

5. Proposed plan of work for instructional farm

6. Infrastructural development

7. SAC meeting proposed

1. TRAINING PROGRAMMES

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	Efficient utilization of plant nutrient	December-09	1	25	PF
Horticulture	Raising of seedling of rabi vegetable crops	October-09	1	25	PF
	Drip irrigation in Vegetables	December-09	1	25	PF
Plant Protection	Integrated Insect-Pest and Disease Management in vegetable crops	November-09	1	25	PF
Live Stock Production	Importance of supplementation mineral mixture to dairy animal for health, reproduction and milk production	October-09	1	25	PF
QUARTER-II					
Crop Production	Package of practices of Sugarcane	January-10	1	25	PF
Horticulture	Low Cost Green House	January-10	1	25	RY
	Importance of fruit crops, its problems and solutions	Feburary-10	1	25	PF
Plant Protection	Insect-Pest and disease management in summer groundnut	January-10	1	25	PF
Live Stock Production	Importance of A.I. in dairy animal	January-10	1	25	FW
	Clean milk production	March-10	1	25	FW

QUARTER-III					
Crop Production	Package of practices of major kharif crops (Pigeon pea and drilled paddy)	May-10	1	25	PF
Horticulture	Kitchen garden	May-10	1	25	FW
Plant Protection	Insect-Pest and disease management in paddy	May-10	1	25	PF
Live Stock Production	Deworming and vaccination in dairy animal	May-10	1	25	PF
QUARTER-IV					
Crop Production	Role of organic manures in enhancing soil productivity	July-10	1	25	PF
Horticulture	Raising of seedling of kharif vegetable crops	July-10	1	25	PF
Plant Protection	IPM in Cotton	July-10	1	25	PF
Live Stock Production	Criteria for selection of higher yielder Dairy animal	Aug-10	1	25	FW

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					
Crop Production	Use of biofertilizer in oilseed and pulses crop	November-09	1	25	PF
	Package of practices for gram	November-09	1	25	PF
	Fertilizer and nutrient management in wheat	December-09	1	25	PF
Horticulture	Raising of seedlings of rabi vegetables	October-09	1	25	PF
	Production technology of tomato	November-09	1	25	PF
	Production technology of onion	December-09	1	25	PF
Plant Protection	Integrated insect-pest management in pigeon pea	October-09	1	25	PF
	Insect-pest of brinjal and its management	November-09	1	25	PF
Extension Education	Importance of group formation	November-09	1	25	PF
Live Stock Production	Scientific management of new born calf	Oct-09	1	25	FW
	Scientific management of new born calf	Oct-09	1	25	FW
	Scientific management of new born calf	Nov-09	1	25	FW
	Scientific management of new born calf	Dec-09	1	25	FW
QUARTER-II					
Crop Production	Production technology of summer groundnut	January-10	1	25	PF
Horticulture	Weed Management in Vegetables	January-10	1	25	PF
	Production technology of cluster bean	February-10	1	25	PF

	Production technology of okra	March-10	1	25	PF
Plant Protection	Insect-pest of brinjal and its management	Feb-10	1	25	PF
	Insect-pest of okra and its management	March-10	1	25	PF
Extension Education	Importance of farmers interest group formation	January-10	1	25	PF
Live Stock Production	Management of lactating animal for maximize milk production	January-10	1	25	FW
	castratation of male calf	Feb-10	1	25	PF
QUARTER-III					
Crop Production	Package of practices of sorghum	April-10	1	25	PF
	Cultivation practices and production technology in drilled paddy	May-10	1	25	PF
	Weed management in Kharif crops	June-10	1	25	PF
Horticulture	Kitchen Garden	April-10	1	25	FW
	Raising of seedlings of Kharif vegetable	May-10	1	25	PF
Plant Protection	IPM in cotton	June-10	1	25	PF
	IPM in cotton	June-10	1	25	PF
Extension Education	Value addition and marketing of farm produce	April-10	1	25	PF
Live Stock Production	Vaccination and its importance	April -10	1	25	PF
	Deworming in Goat	May-10	1	25	PF
QUARTER-IV					
Crop Production	Low cost technologies for crop production	July-10	1	25	PF

	Methods of irrigation	August-10	1	25	PF
Horticulture	Raising of seedlings of Kharif vegetable	July-10	1	25	PF
	Production technology of brinjal and chilli	August-10	1	25	PF
	Production technology of chilli	Sep-10	1	25	PF
Plant Protection	Insect-Pest and disease management in paddy	August-10	1	25	PF
	Insect-pest of pigeon pea and its management	Aug-10	1	25	PF
Live Stock Production	Control of ectoparasite in animal house	August-10	1	25	PF
	Evaluation of animal with object to purchase	Sep-10	1	25	FW

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

1.3 SPONSORED TRAINING

Subject	Title of training	Month	Duration (days)	No. of participants	Type of participants	Sponsoring Agency
QUARTER-I						
Horticulture	Kitchen garden	October-09	1	25	Farm women	AKRSP(I)
Livestock production	Care and management of new born calf	December-09	1	25	Farm women	AKRSP(I)
QUARTER-II						
Multi disciplinary	Package of practices of main crops	February-10	1	25	Farmers	Line Dept.
Multi disciplinary	Package of practices of main crops	March-10	1	25	Farmers	Line Dept.
QUARTER-III						
Horticulture	Preservation of fruit and vegetables	April-10	1	25	Farm women	AKRSP(I)

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

INSERVICE TRAINING

Subject	Title of training	Month	Duration (days)	No. of participants	Type of participants	Sponsoring Agency
QUARTER-I						
Extension Education	How to conduct the demonstration	December-09	1	25	EF	Line Dept.
Live Stock Production	Storage and handling of semen for A.I.	October-09	1	25	EF	NGO, Co-Op Dairy, and Line Dept. A.I. workers
QUARTER-III						
Crop Production	Refresher course on crop production technology (Sugarcane)	April-10	2	25	EF	Sugar factory
Live Stock Production	Storage and handling of semen for A.I.	May-10	1	25	EF	NGO,Co- Op Dairy,and Line Dept. A.I. workers

1.4 VOCATIONAL TRAINING

Subject	Title of training	Month	Duration (days)	No. of participants	Type of participants
QUARTER-III					
Horticulture	Nursery Management	April-10	7	25	RY
Crop production	Seed production technology	May-10	7	25	RY
Animal husbandry	Primary treatment to animal	May-10	7	15	RY

2. DEMONSRATIONS

2.1 FRONT LINE DEMONSRATIONS- OILSEEDS AND PULSES

Title of Demo.	Objectives	Variety	Farming Situation	Area (ha)	No.of Demo /farmers	Existing Technology	Scientific Technology intervention	Critical inputs	Remarks
Oilseeds									
Castor	To introduce new crop	GCH-5/ GCH-7	Rainfed	5	15	▪Less area under cultivation ▪No seed treatment	▪Introduction of new crop	Seed Bio-fertilizer	Kharif'10
Soybean	To introduce new crop	JS-335	Rainfed	10	20	▪Less area under cultivation ▪No seed treatment	▪Introduction of new crop	Seed Bio-fertilizer	Kharif'10
Pulses									
Gram	To popularize new variety	GG-2	Rainfed	10	20	▪Use of old/local variety ▪No seed treatment ▪No use of fertilizer	▪Use of new variety ▪Seed treatment ▪Recommended dose of fertilizer	Seed Bio-fertilizer	Rabi'08-09
Pigeon pea	To popularize new variety	Vaisali	Rainfed	5	12	▪Use of old/local variety ▪No seed treatment	▪Use of new variety ▪Seed treatment	Seed Bio-fertilizer	Kharif'10

2.2 FRONT LINE DEMONSRATION OTHER THAN OILSEEDS AND PULSES

Title of Demo.	Objectives	Variety	Farming Situation	Area (ha)	No.of Demo /farmers	Existing Technology	Scientific Technology intervention	Critical inputs	Remarks
Wheat	To popularize new variety	GW-322	Irrigated	10	25	▪Use of old/local variety	▪Use of new variety	Seed	Rabi'08-09
Paddy (Drilled)	To introduce new variety	GR-5	Rainfed	10	25	▪Use of local variety	▪Use of new variety	Seed	Kharif'10

Title of Demo.	Objectives	Variety	Farming Situation	Area (ha)	No.of Demo /farmers	Existing Technology	Scientific Technology intervention	Critical inputs	Remarks
Vegetable									
Onion	To popularize new variety	NHRDF Red	Irrigated	2	10	▪Use of local variety	▪Use of new variety	Seed	Rabi'09
Okra	To popularize new variety	GOH-2	Irrigated	2	10	▪Use of local variety	▪Use of new variety	Seed	Summer'10
INM						▪	▪		
Tomato	Efficient use of fertilizers	GT-2	Irrigated	2	10	▪Use of Excess or less quantity of fertilizers ▪No use of biofertilizers ▪No use of FYM	▪Integrated Nutrient Management	- Recommended dose of Chemical fertilizers - Biofertilizers	Rabi'09
Chilli	Efficient use of fertilizers	GVC-121	Irrigated	2	10	▪Use of Excess or less quantity of fertilizers ▪No use of biofertilizers ▪No use of FYM	▪Integrated Nutrient Management	- Recommended dose of Chemical fertilizers - Biofertilizers	Kharif '10
Brinjal	Efficient use of fertilizers	Surti Raviaya	Irrigated	2	10	▪Use of Excess or less quantity of fertilizers ▪No use of biofertilizers ▪No use of FYM	▪Integrated Nutrient Management	- Recommended dose of Chemical fertilizers - Biofertilizers	Kharif '10
IPM									
Cotton	To minimize the use of pesticides	Improved / hybrid	Rainfed	5	10	▪Only chemical method of pest control	▪IPM	Pheromone trap Lures Neem based pesticides B. bassiana	Kharif'10

Bio-agents									
Chick pea	Control of wilt disease	Local	Rainfed	5	10	▪No use of bio-agents	▪Biological control	Trichoderma	Rabi'09
Pigeon pea	Control of wilt disease	Vaishali	Rainfed	5	10	▪No use of bio-agents	▪Biological control	Trichoderma	Kharif'10
Other demonstration									
Kitchen Garden	To popularize the Kitchen Garden Model	Recommended varieties of vegetables	Irrigated	0.4	25	▪Use of desi or scattered method	▪Kitchen Garden Model	- Recommended vegetables seeds	Kharif '10

Livestock production

Sr. No	Technology to be demonstrated	Objective	No. of Farmer	Types & No of Animals	Observation	Critical inputs
1.	Mineral mixture	To popularize Mineral mixer supplementation	10	Buffalo - 20	1. 1st heat detection after calving 2. Service period (day)	Powd. Mineral mixture
2.	Urea treatment to paddy straw	To introduce Urea treatment	5	CB Cows-5	Milk Production (lit./day)	Urea + plastic cloth
3.	Concentrate feeding to kid	To popularize Concentrate Feeding method	10	Kid -20	Body weight at age of 1st,3rd,6th & 9 th (months)	Concentrate

3. ON FARM TESTING

(1) **Title**: Low yield of Chilli

Background information:

Chilli crop is one of the main fruit vegetable crop of this area mainly grown in *kharif* season. The sowing distance of this crop adopted by farmer is so closer resulted in poor crop growth and yield. The medium black and sandy loam soil of this area, favor the vigorous growth of chilli crop, under appropriate spacing. Also noticed from FLD and field visit, the farmers are adopting improper plant protection measure and imbalance use of fertilizer. Hence, growth and productivity of chilli crop is poor. So, such problem on proper sowing distance needs to refine.

Reasons of low productivity:

1. Closer spacing
2. Imbalance use of fertilizers
3. Improper plant protection measures
4. Time of sowing

Intervention point : Spacing

Variety : GVC-121

Location : Mota suka amba and Nawagam
Taluka: Dediapada, Diast: Narmada

No. of farmers : 3

Plot size : 0.20 Ha.

Objective : To find out proper spacing of chilli crop during *kharif* season.

Critical input to be supplied:

1. Seed
2. Biofertilizers
3. Chemical fertilizers

Treatment : T1 – 30 x30 cm (farmer's practices)
T2 – 60 x60 cm (Recommended spacing)
T3 – 45 x45 cm (refinement)

Observation to be recorded:

1. Plant height (60 and 120 DAT)
2. Plant canopy (60 and 120 DAT)
3. No. of picking
4. Yield (q/ha)

(2) **Title :-** Low yield of wheat

Background :- Wheat is taken in Narmada district in rabi season Due to broadcasting method of sowing improper plant - population and ultimately low yield of wheat is obtained apart form this framer of this region also used improper fertilizer doses and seed rate. This also contributes to the low yield of wheat. Hence, to determine the proper spacing for wheat crop OFT is planned.

Reason for low productivity :-

- Broadcasting method of sowing
- Imbalance use of fertilizer
- Improper seed rate

Objective :- To find out proper spacing for wheat crop.

Treatment :-

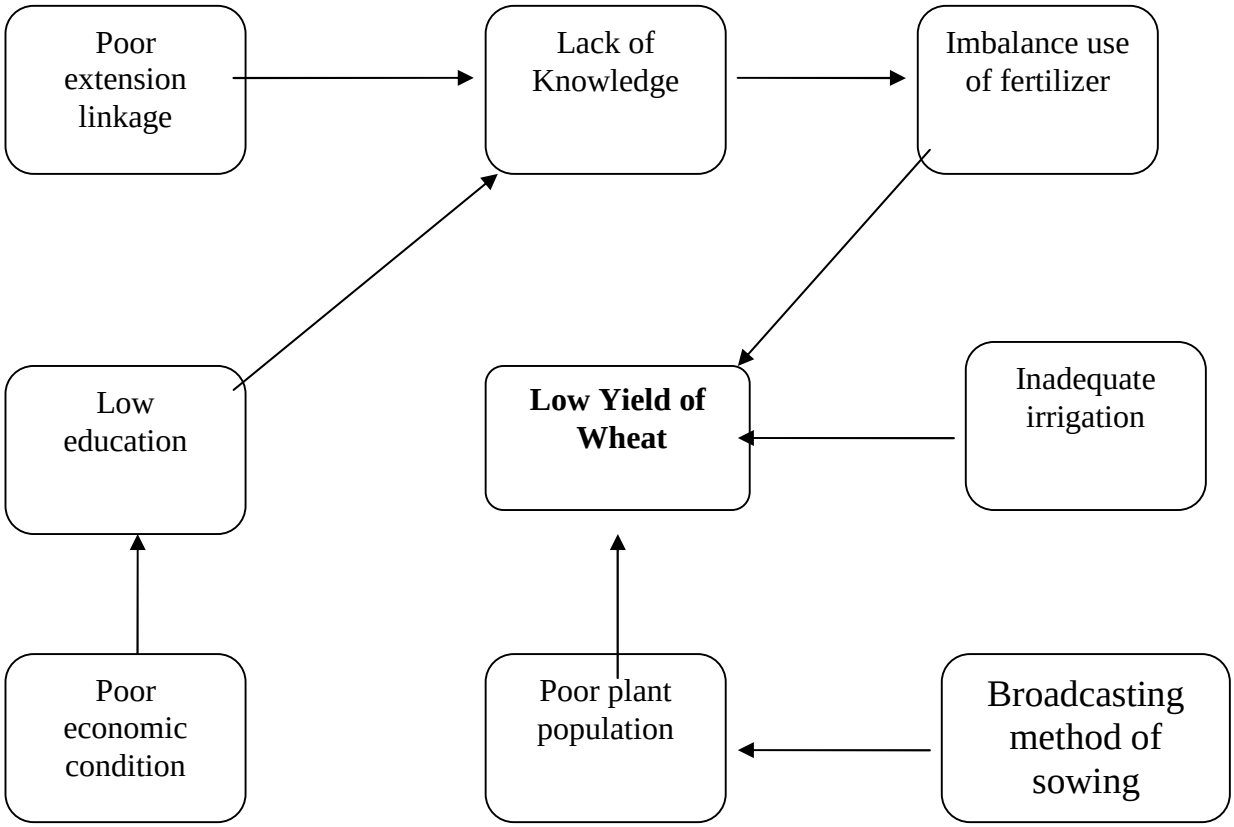
T_1 : Broadcasting - Farmers method
T_2 : Line sowing at 22.5 cm apart :- Recommended practice
T_3 : Line sowing at 15 cm apart :- Newly suggested

Replication :- 3 Farmers
- Nawagam - Taluka :- Dediapada
- Duttwada - Taluka :- Sagbara
- Katkoi - Taluka :- Tilakwada

Area :- 0.15 ha

Investigation Point :- Line spacing.

Problem Cause Diagram



(3) Title:- Effect of Supplementing Mineral Mixture and Concentrate on Body Growth Performance in Calves

Problem:-Poor body growth performance in calves

Objective: To improve the body growth performance in calves.

Background information:

The success of dairy farming depends upon rearing of calves successfully to a breedable age as quickly as possible and with a minimum of mortality so as to have replacement stock. Raising calves is by far the most difficult operation in a dairy farming enterprise which requires a great deal of management skill, application and constant attention. Care and growth of calf starts in the womb just after fertilization and pre-natal growth has a great influence on post-natal

growth because the latter is closely correlated with the birth weight. Both under feeding and over feeding of calves are problematic to health as well as growth. Hence, this trial is planned to frame certain recommendations to improve body growth rate in calves.

Location:-Adopted village, Narmada district

Causes:

1) Rare use of mineral mixture in feeding of calves
2) Parasitic load
3) Under feeding of calves
4) Diseases infestation
5) Rare use of concentrate mixture
6) Under feeding of colostrums

Technical Intervention:

1) Use of mineral mixture
2) Use of Deworming agents
3) Use of concentrate mixture

Treatments:

T1: Traditional Practice

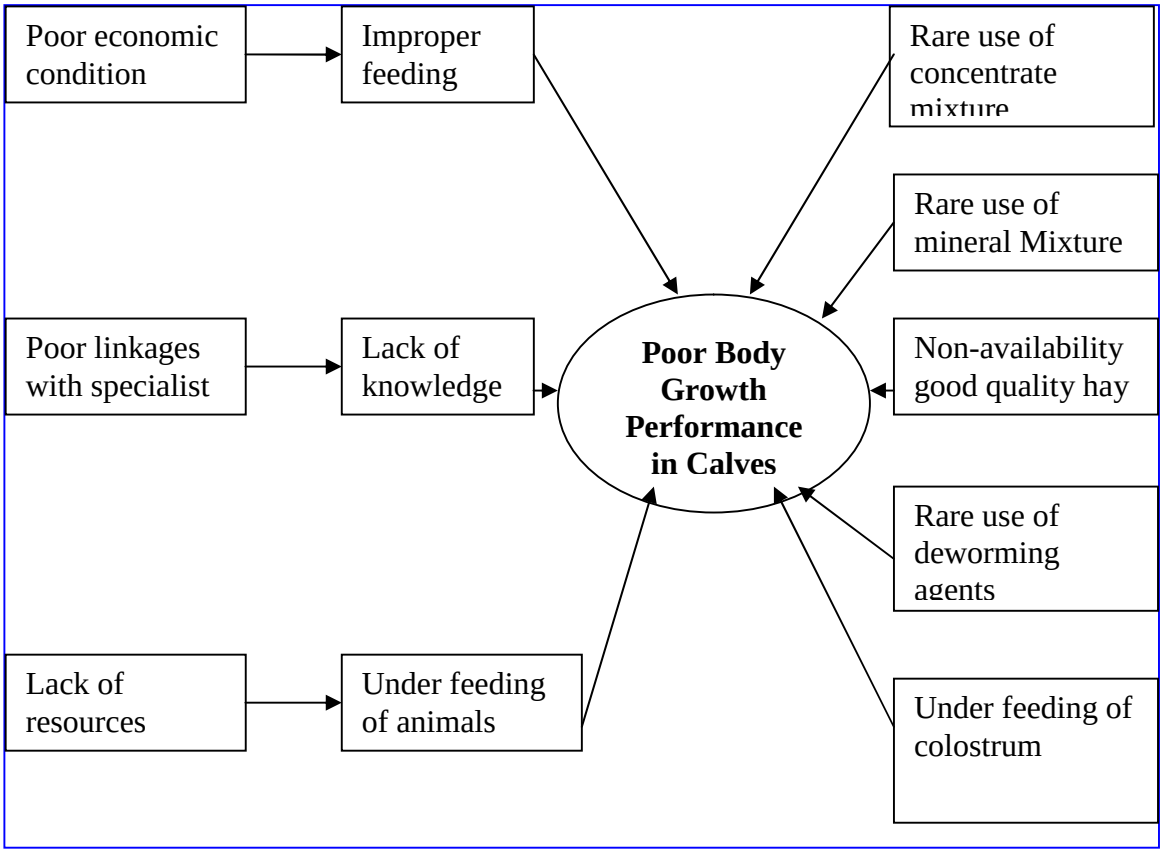
T2: Feeding of 50 gm mineral mixture + Deworming

T3: T2 + Concentrate feeding @ 300 per day

No.of Animal:-T1- 2, animal, T2-4, animal, T3-4 animal

Observations: Body weight (Kg.)at age of Birth, 1st,,3rd, 6th,12th month

Problem Cause Diagram



4 EXTENSION ACTIVITIES

SN	Activity	Quarters				Total
		I	II	III	IV	
1	2	3	4	5	6	7
1.	Field days	2	1	-	2	5
2.	Kisan mela / Farmers day	-	-	-	1	1
3.	Agricultural exhibition	2	2	4	2	10
4.	Scientist farmers interaction	1	-	-	1	2
5.	Farm Science Club	1	-	-	1	2
6.	Mahila mandal	-	-	-	-	-
7.	World Food Day	1	-	-	-	1
8.	Women in Agri. day	1	-	-	-	1
9.	Diagnostic services					
	(i)Farmers visit to KVK	25	25	10	25	85
	(ii)Scientists visits to farmers fields	10	5	5	20	40
10.	Lecture to be delivered in other programme	As per need				
11.	Distribution of seed on cost basis					4 T
12.	Soil & water sample analysis	-	-	-	-	-
13.	Publication					
	(i) Research Paper	-	-	-	-	-
	(ii)Popular articles	1	1	1	1	4
	(iii) Folders	1	1	1	1	4
14.	Communication media					
	(i) Radio talk	As per allotment				
	(ii) TV / Film show	1	-	-	1	2
	(iii) News paper coverage	3	3	3	3	12
	(iv) Telephone helpline	10	10	10	10	40
15	Animal health camp	2	-	2	-	4

5. PROPOSED PLAN OF WORK FOR INSTRUCTIONAL FARM

Sr. No.	Crop	Particular	Area (ha.)
1	Paddy	Seed production	1.5
2	Pigeon pea	Seed production	3.0
3	Niger	Seed production	0.5
4	Soybean	General cultivation	3.0
5	Groundnut	Seed production	1.0
6	Green gram	General cultivation	0.5
7	Black gram	General cultivation	0.5
8	Sorghum	General cultivation	0.5
9	Fruit crop and Forestry	Mother orchard	1.0
10	WADI model	Demonstration	0.4

6 INFRASTRUCTURE DEVELOPMENT

SN		Proposed Plinth area (Sq.m.)	Cost (Rs.in lakhs)
1.	Trainees' Hostel	305	30.43
2.	Residential quarters for 6 (six) Nos.	400	39.69
3.	Demonstration unit	160	10.00
	Total		**80.12**

7 SAC MEETING PROPOSED

June, 2010

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