

Action Plan

April 2011 – March 2012

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QUARTERWISE SUMMERY OF ACTION PLAN**1. TRAINING PROGRAMME**

S. No.	Subject	On Campus												Total				Grand Total									
		P.F.				F.W.				R.Y.				E.F.					On campus		Off Campus						
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV		I	II	III	IV					
1	Crop Production	1	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	2	2	0	3	3	3	4	19
2	Horticulture	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	9
3	Extension	0	0	1	1	1	0	0	1	1	0	1	0	1	1	0	0	0	2	0	2	3	1	2	2	3	15
4	Plant Protection	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	3	0	0	0	1	1	1	1	7
5	Live stock Production & Management	1	1	1	1	1	1	0	0	0	0	1	0	1	0	0	0	0	2	3	1	1	2	2	2	2	15
6	Home Science	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	7
	Total	2	3	5	3	4	2	1	1	3	0	1	1	1	1	1	1	10	6	7	5	9	11	11	13	72	

2. DEMONSTRATION

S. No.	Type of Demonstration	Season	Crop	Farming situation	No. of Demonstration	Area (ha)
A.	Front Line Demonstration					
		Khharif				
		• Oilseeds	◆ Sesame	Rainfed	30	15
		• Pulses	◆ Green gram	Rainfed	25	15
		Rabi				
		• Oilseed	◆ Mustard	Irrigated	15	15
B.	Demonstration other than FLD		◆ Gram	Irrigated	10	5
		Khharif	◆ Maize	Rainfed	15	10
			◆ Sorghum	Rainfed	20	10
			◆ Cluster bean	Rainfed	10	10
		Rabi	◆ Wheat	Irrigated	30	15
			◆ Barley	Irrigated	20	15
			◆ Cumin	Irrigated	30	15
			◆ Vegetable	Irrigated	15	2.0
			◆ Methi	Irrigated	15	10
C.	Others					
			• Compost/ vermi compost		10	-
			• MNFB		10	-
			• Improved Agri. Equipment-		05	-
	• Kitchen garden		02	-		

1. TRAINING PROGRAMMES

1.1 On Campus training (For practicing farmers/ farm women & rural youth)

<i>Quarter</i>	<i>Discipline</i>	<i>Title of Training</i>	<i>Date</i>	<i>Duration (days)</i>	<i>No. of Participants</i>	<i>Type of Participants</i>
1 st	Crops	1. Organic farming for sustainable agriculture	5-6 April	2	20	PF
	Horticulture	1. Agro-techniques for arid fruit plants	7-8 April	2	20	PF
		2. Improvement of desi ber plants and rejuvenation of old orchards	15-16 May	2	20	PF
2 nd	Extension	1. Mass media for information on improved agrotechniques	3-4 May	2	20	PF/R/Y
	Crops	1. Cultivation practices for kharif pulses	8-9 June	2	20	PF
	Horticulture	1. Techniques for propagation of arid fruits plants	27-28 June	2	20	PF
	Animal Science	1. Management and feeding practices of dairy animals	23-24 June	2	15	PF
		2. Prophylactic and control measures of contagious diseases	4-5 July	2	20	PF
	Home Science	1. Bandhej	3-4 August	2	20	FW
	Crops	1. Efficient management of irrigation water	5-6 Sept.	2	20	PF
	Home science	1. Basic of food and nutritional balanced diet	16-20 Sept.	2	20	FW
		2. Nutrition for mother and children	16-17 Oct.	2	20	FW
	Animal Science	1. Role of minerals and vitamins in animal feed	28-29 Nov.	2	20	PF
Extension	1. Sources and procedures for purchase of quality agri-inputs	17-18 Dec.	2	20	PF/FW	

4 th		2. Entrepreneurship development in agriculture	14-15 Dec.	2	20	RY
	Crops	1. Improved cultivation practice for quality fodder production	1-2 Mar	2	20	RY
		2. Management of saline/ sodic soils	28-29 Mar	2	20	PF
	Horticulture	1. Nursery raising techniques for arid fruit plants	7-8 Feb.	2	20	PF
	Home science	1. Value addition to the arid fruit through various preparations	14-15 Mar	2	20	RY
	Animal Science	1. Scientific sheep and goat rearing	17-18 Feb	2	20	PF
	Extension	1. Govt. programmes for benefit of rural community	23-24 Feb	2	20	PF/RY
		2. Information on improved agricultural technology using print media	19-20 Mar	2	20	PF/RY

1.2 Off Campus Training (For practicing farmers/ farm women & rural youth)

Quarter	Discipline	Title of Training	Date	Duration (days)	No. of Participants	Type of Participants
1 st	Crops	1. Improved package of practices for grasses	6.4.2011	1	20	WF
		2. Seed production of kharif crops	19.4.2011	1	20	PF
		3. Cultivation practices for sesame	11.5.2011	1	20	PF
	Horticulture	1. Package & practice of fruit plants	20.5.2011	1	20	PF
		2. Techniques for training & pruning of ber plants	11.4.2011	1	20	PF
	Animal	1. Role of probiotic ruminant.	18.5.2011	1	20	PF

Science	2. Anoestrus in buffalo and its solution	27.5.2011	1	20	PF
Home Science	1. Importance of breast feeding for infants	20.6.2011	1	20	FW
Extension	1. Mass media for information on improved agrotechniques	6.6.2011	1	20	PF/Ry
	2. Importance of modern information technology for farmers	23.6.2011	1	20	
Plant protection	1. Seed treatment for improved production	24.6.2011	1	20	PF
Crops	1. Moisture conservation for rainfed farming	5.7.2011	1	20	PF
	2. Weed management in sesame	12.7.2011	1	20	PF
	3. Vermi-composting	10.8.2011	1	20	WF
Horticulture	1. Techniques for In-situ budding of ber plants	12.9.2011	1	20	Ry
	2. Techniques for In-situ budding of aonla plants	20.9.2011	1	20	PF
Animal Science	1. Vaccination in animals and its economical importance	8.7.2011	1	20	PF
	2. Management of heat stroke	17.8.2011	1	20	PF
Extension	1. Sources and procedures for purchase of quality agri-inputs	23.8.2011	1	20	PF/FW
Home science	1. Reason and precautions from different diseases during childhood	25.8.2011	1	20	FW
Plant protection	1. Plant protection measure in kharif pulses	1.8.2011	1	20	PF
	2. Plant protection measure in kharif crops	21.9.2011	1	20	PF
Crops	1. Agronomical practices for rabi cereals	7.10.2011	1	20	PF
	2. Improved package of practice for mustard	17.10.2011	1	20	PF
	3. Water management for rabi crops	18.11.2011	1	20	PF
	4. Fertility management through composting	21.11.2011	1	20	Ry

Horticulture	1. Techniques & tips of vegetable production	21.10.2011	1	20	PF
	2. Grading & packing of fruits and vegetables	3.11.2011	1	20	RY
	3. Improved package of practices of cumin production	5.12.2011	1	20	PF
Animal Science	1. First aid in animal	14.10.2011	1	20	PF
	2. Artificial insemination in animals	12.12.2011	1	20	PF
Home science	1. Preparation of nutritious food poshak for children	22.12.2011	1	20	FW
	2. Importance and techniques of kitchen gardening	7.12.2011	1	20	FW
	3. Safe drinking water technology	16.12.2011	1	20	RY
Extension	1. Print media for information on improved agri-techniques	28.11.2011	1	20	PF
Plant protection	1. Seed treatment for rabi cereals	12.10.2011	1	20	PF
Crops	1. Soil fertility management through composting	4.1.2012	1	20	PF
	2. Rain water harvesting technology for rainfed farming	13.1.2012	1	20	PF
Horticulture	1. Techniques & tips of lady's finger production	21.1.2012	1	20	PF
	2. Techniques & tips of cucurbits production	4.2.2012	1	20	PF
Animal Science	1. Quality improvement of roughages by urea treatment	28.1.2012	1	20	PF
	2. Clean milk production	24.2.2012	1	20	FW
Extension	1. Govt. programmes for benefit of rural community	21.2.2012	1	20	PF/RY
	2. Mass Media for information for improved Agro techniques	10.2.2012	1	20	PF/FW
Plant protection	1. Plant protection in rabi oilseeds	6.3.2012	1	20	PF
	2. Plant protection measure in rabi crops	15.3.2012	1	20	PF
Home Science	1. Training on health and hygiene	16.1.2012	1	20	FW
	2. Use of serrated sickles for drudgery reduction	26.3.2012	1	20	RY/FW

1.3 In Service Training Programme for Extension Functionaries

Quarter	Discipline	Title of Training	Date	Duration (days)	No. of Participants	Type of Participants
2 nd	Crops	Package & practice for grasses / pasture management	22-24 Mar	3	20	Supervisor of dept. of Agril.
3 rd	Extension	Mixed farming system for sustainable resource use	30-31 Dec	3	20	Supervisor of dept. of Agril.
3 rd	Animal Science	Balance feeding of animals	10-12 Dec	3	20	Livestock Assistant
2 nd	Horticulture	Cultivation practices of arid fruits	30-31 May	2	20	Agriculture Supervisor

2. DEMONSTRATION

2.1 FRONT LINE DEMONSTRATION

Title of Demons.	Objectives	Farming situation	Area (ha)	No. of Farmer	Existing technology	Specific techno. Intervention	Critical Input	Remarks
Oilseed Sesame	To popular new variety, use of fertilizer & PP chemicals	Rainfed	10	25	Use of local tili or available old variety, no line sowing, no use of fertilizer/ pp chemicals	Use of latest variety, line sowing, balance fertilizer & pp chemicals	Seed, bio fertilizer, ssp/dap, pp chemicals	kharif
Mustard	To demonstrate latest technology of mustard	Irrigated	15	15	Using available old variety, imbalance fertilizer use, lower doses of pp measures	Use of latest variety, balance fertilizer, bio fertilizer & proper pp measures	Seed, bio fertilizer/ ssp/dap/urea & pp chemicals	rabi

Pulses									
Green gram	To demonstrate latest production technology of green gram	Rainfed	10	15	Using old variety, no bio fertilizer/ fertilizer & pp measures	Use of latest variety, bio fertilizer, fertilizer, timely pp measures & weed control	Seed, bio fertilizer, SSP, urea & pp chemicals		kharif

2.2 Demonstration other than FLD

S. No.	Title of Demons.	Objectives	Farmin g situation	Area (ha)	No. of farm ers	Existing technology	Specific techno. Intervention	Critical Input
1.	Maize	To demonstrate high yielding short duration varieties	Rainfed	15	25	Use of local seed, no seed treatment, fertilizer / pp application	Use of high yielding variety, seed treatment, bio fertilizer	Seed, bio fertilizer / pp chemicals
2.	Sorghum	To popularize high yielding short duration varieties	Rainfed	20	25	Use of locally available jowar, no seed treatment/fertilizer / bio fertilizer application & no PP measures	Improved seeds of latest variety & bio fertilizer	Seed & bio fertilizer
3.	Cluster bean	To demonstrate performance of high yielding short duration variety	Rainfed	15	25	Use of local seed, no seed treatment, fertilizer / pp application	Use of high yielding variety, seed treatment, bio fertilizer	Seed, bio fertilizer / pp chemicals
4.	Wheat	To demonstrate performance of high yielding variety	Irrigated	30	30	Use of local seed, no seed treatment, imbalance use of fertilizer, no weeding practice is followed	Improved variety seed, seed treatment, bioferti. / balance fertilizer & chemical weed control	Seed, bio ferti. Seed treatment chemicals & weedicide
5.	Barley	To popularize high yielding variety	Irrigated	20	25	Use of local seed, no seed treatment no fertilizer use,	Improved variety seed, seed treatment,	Seed, bio ferti. Seed treatment

		under saline soils								bio ferti./ balance fertilizer	chemicals
6.	Cumin	To demonstrate performance of high yielding variety	Irrigated	10	15	Use of local seed, no seed treatment	Improved seed, pp measures	Seeds			
7.	Vegetable	Grow the vegetable in kitchen garden	Irrigated	4	20	Not grow vegetable	Grow the vegetable as kitchen garden	Seed, insecticide, pesticides & fertilizer			
8.	Okra (NHM)	Demonstrate performance of high yield variety	Irrigated	2	10	Practice and package	Improved seed	Seed, insecticide, pesticides & fertilizer			
9.	Binjal (NHM)	Demonstrate performance of high yield variety	Irrigated	2	8	Practice and package	Improved seed	Seed, insecticide, pesticides & fertilizer			
10.	Tomato (NHM)	Demonstrate performance of high yield variety	Irrigated	1	5	Practice and package	Improved seed	Seed, insecticide, pesticides & fertilizer			
11.	Ber	To improve the quality & quantity of ber fruits	Rainfed	150 Nos.	15	No adopted any improved technology	Budded technology	Buds, insecticides & pesticides			
12.	Ber (NHM)	To develop the orchard	Irrigated	10	10	Practice and package	Grafted planting	Plant insecticide manure and digging the pits			
Others than crops											
1.	Compost/vermi compost	To popularize compost technology for improvement of soil fertility	-	-	15	Kept at open place near the house	Improved compost/vermi compost technology	Super phosphate, PSB culture & worms			
2.	Multi	Supplementary	-	-	10	Demonstrate MNFB	Multi nutrient feed	MNFB/mixture			

	nutrient feed block	feeding to malnourished animals					block/ mixture	
3.	Multi nutrient feed block	Supplementary feeding to malnourished animals	-	-	10	Demonstrate MNFB	Multi nutrient feed block/ mixture	MNFB/mixture

3. Extension Activities

S. No.	Type of Activity	Quarter				Total
		I	II	III	IV	
1.	Field day	0	02	02	02	06
2.	Farmers day/ Vichar goshti	03	03	03	03	12
3.	Agril. Exhibition	0	01	01	03	05
4.	Scientist farmers interaction	01	01	01	01	04
5.	Farm science club	0	01	01	01	03
6.	Ex trainees meeting	03	03	03	03	12
7.	World food day	0	01	0	0	01
8.	Women in agril day	0	0	01	0	01
9.	World Environment Day	01	0	0	0	01
10.	CAZRI foundation day	0	0	01	0	01
11.	Diagnostic service					
	◆ Farmers visit to KVK	05	05	05	05	20

	◆ Scientist visit to farmers field	06	06	06	06	06	24
12.	Lectures on other programme	10	10	10	10	10	40
13.	Campaigns						
	◆ Grain storage	0	01	0	01	01	02
	◆ Composting	01	0	03	01	01	05
14.	Publication						
	◆ Research paper to be published	-	-	-	-	-	-
	◆ Popular articles to be published	01	01	01	01	01	04
	◆ Extension bulletin	0	01	0	01	01	02
	◆ Pamphlets/ folder	02	0	02	0	0	04
15.	Poster/ Charts	0	0	01	04	04	05
16.	Communication media						
	◆ Radio talk	04	02	03	03	03	12
	◆ TV/ film show	04	06	05	08	08	23
	◆ News paper coverage	10	10	15	13	13	48

4. PROPOSED PLAN OF WORK FOR INSTRUCTIONAL FARM

S. No.	Name of Unit	Season	Crop	Area (ha)
1.	Crop production	Kharif	◆ Crop museum of grasses	0.50
			◆ Crop museum of kharif crops	0.50
		Rabi	◆ Crop museum of rabi crops	0.50
2.	Seed Multiplication Programme	Kharif	✓ Sesame	1.00
			✓ Guar	1.00
			✓ Sorghum	1.00
			✓ Green gram	1.00
			✓ Okra	0.50
3.	Horticulture	Kharif	◆ Ber	1000 Nos. seedlings

5. INFRA STRUCTURAL DEVELOPMENT

S. No.	Infrastructural development/ particulars	Existing	Proposed during the year (2011-12) with cost (Rs lakh)	Justification
1.	Building (office and farmers Hostel) - White wash & colour	01	1.0	Need maintenance
2.	Vehicle (Mini bus)	Nil	10.5	Required for trainings purposes
3.	Tractor	01	5.0	Need replacement
4.	Soil testing lab	Nil	5.5	Needed for providing service to farming community
7.	Automatic Weather Station	Nil	3.88	Needed for weather data

6. SAC MEETING PROPOSED: 27.05.2012**7. ON FARM TRIALS****1. AGRONOMY****TITLE:** *LOW PRODUCTIVITY OF CHICKPEA***Location:** Giradhda

The village Giradhda has been selected under the OFT programme where the productivity of gram goes on decreasing. village Giradhda is situated about 22 km away from the KVK. The soil of the village is sandy loam. The main crops of the area are pearl millet, sesame, moong & guar in kharif and gram, mustard, wheat in rabi season. The area under wheat is limited and all the farmers gave more emphasis to gram and mustard. At present farmers of adopted area grown predominantly use local variety of gram as seed and yield of the gram is also decreasing day by day. Some of the farmers use FYM once in 3-4 years in a limited area and not applying recommended does of NPK. The FYM used by the farmers are also not welldecomposed.

In kharif season, if timely mansoon is available the farmers grow kharif crop, otherwise the farmers conserved the moisture for rabi crops like gram and mustard. The soil of the area is saline alkaline in nature. The farmers use very low seed rate per ha. As compared to recommended practices. The average yield of gram per ha. Range from 4-5 q/ha.

Reason for low yield

1. Use of local seed
2. Use of very low seed rate
3. Crop grown under conserved moisture
4. Limited use of organic manure
5. No use of efficient rhizobium culture
6. Rare use of PP Chemicals
7. Improper crop geometry
8. Lack of knowledge

Intervening points

Effect of optimum seed rate on yield of gram

Possible solution

1. Use of recommended seed rate
2. Use of recommended variety

Treatments

- T1** 70 kg improved seed
T2 55 kg improved seed
T3 40 kg Farmers practice

Plot size: 0.25ha**No. of farmers:** 10**Critical input to be supplied**

- Improved seed
 P P Chemicals for seed treatment

Duration: Three years**Budget required:** The budget required for purchase of critical input is approximate Rs. 12500/ per year.

TITLE: LOW PRODUCTIVITY OF MAIZE

Location: Inderwada

The village Inderwada is situated about 60km from distt. HQ. Maize is the staple food crop of this area occupying nearly 35 per cent of kharif cropped area. The crop is grown under irrigated condition and sown with the onset of monsoon particularly from the end of June to mid of July. Hardly 10-15 per cent area is occupied by improved i.e. hybrid/ compost variety. Rare use of basal dose of phosphatic fertilizer, nitrogen is applied when crop is well established but at sub optimal level. Farmers are maintaining relatively higher plant population in early stage of crop growth which invites competition between the plants. Besides these, crop suffers heavily with acute weed problem at initial stage which ultimately affects the grain production. Plant protection measures are not followed properly.

Reason for low productivity

- Poor adoption of improved variety.
- Improper and sub optimum fertilizer use.
- Severe weed infestation.
- Delayed sowing
- Improper crop geometry and higher plant population.

Intervening points

- Severe weed infestation
- Rare use of fertilizer at sowing
- Rare use of manure

Technological intervention

- Herbicidal weed control in maize crop

Treatments

- T1 Farmers practice hand weeding at 15 / 20 days
- T2 Pre-emergence spray of Atrazine 0.5kg/ha.
- T3 Pre-emergence spray of Atrazine 0.5kg/ha.+ one hand weeding at 30 days.

Plot size: 0.25ha

No. of farmers: 12

Critical input to be supplied

1. Improved seed
2. Atrazine
3. Basal dose of fertilizer
4. Top dressing of fertilizer

Duration: Three years

Budget required: The budget required for purchase of critical input is approximate Rs. 7775/ per year.

TITLE: *RESPONSE OF GYPSUM LEVEL AND ORGANIC MATERIALS IN SODIC SOIL UNDER DIFFERENT CROPPING SEQUENCE*

Location: Rampura

The high sodicity and pH adversely affect the soil physical properties. The effects are more prominent after rainfall and or irrigation. The stagnation of water results in serious aeration problem at the field level. Such type of soil remains almost dry, hard below a few centimeter of the surface, due to poor infiltration of water. This affects the growth of roots. High level of pH also leads to reduced availability of plant nutrients like nitrogen and Zinc. The application of gypsum and organic materials reduces sodicity, increase percolation, there by increase in production of crop. The object of the OFT is to create awareness among the farmers about waste organic materials (burn by the farmers at fields) with gypsum levels for increasing crop production.

Object: To evaluate the effect of gypsum and organic matter on crop production.

The cropping sequence will be as follow:

- Pearl millet – Wheat
- Cluster bean – Wheat/ Mustard
- Green gram – Wheat/ Mustard

Reason for increasing sodicity in soil

1. Poor management practices
2. Low rainfall and high evaporation
3. Irrigation with available well water which is problematic
4. Imbalance use of chemical fertilizer
5. Rare use of available FYM

Possible solution

- Application of gypsum in affected soil
- Organic material e.g. FYM/ mustard straw
- Deep ploughing

Treatment

- T1** No gypsum
- T2** Gypsum – 100 per cent required dose
- T3** Gypsum – 50 per cent + 10 tonnes/ ha mustard straw.
- T4** Gypsum – 50 per cent + 20 tonnes/ ha mustard straw.

Plot size: 0.25 ha

No. of farmers: 6

List of critical input: Gypsum, FYM, improved seed

Duration: Three years

Budget: The budget required for purchase of critical input is approximate Rs. 9000/ per year.

2. HORTICULTURE

TITLE: *LOW PRODUCTIVITY OF CUMIN*

Reason of low productivity

1. Use of local seed due to non availability of quality seeds.
2. No seed treatment
3. Imbalance use of fertilizer
4. Late sowing
5. Poor knowledge of improved package and practices

Technology intervention

1. Timely Sowing
2. Available of quality seeds
3. Treatment of seeds

Treatments

- T1** Farmer practices
T2 R P
T3 Timely sowing + improved seeds + mixed mustard straw in soil or Mustard cake

No of farmers: 4

Plots sizes: 0.5 ha

Cost of critical inputs: Rs 10,000

Times: Three years

TITLE: *LOW QUALITY AND QUANTITY OF BER FRUITS*

Reason of low quality and quantity of fruits

1. Lack of nutrients
2. Lack of proper time and method of spraying f insecticides and fungicides
3. Improper time of watering
4. Poor knowledge of package and practices

Technology of intervention

1. Spraying of zinc sulphate and application of organic manure+ fertilizers
2. Timely plant protection measures

Treatments

- T1** Farmers practices
T2 RDF
T3 Spraying of zinc sulphate +50% RFD +50% Organic manure
T4 Timely spraying of insecticides, fungicides + Spraying of zinc sulphate+50% RFD +50% Organic manure

No of farmers 2

Plot sizes 0.25ha

Cost of critical inputs 15,000/-

Period Three years

3. ANIMAL SCIENCE

TITLE : *LOW MILK YIELD IN BOVINE*

Reason of low productivity

1. Low nutrition status
2. Poor economic condition for supplement feeding
3. Lack of knowledge of supplementary feeding

Technology intervention

1. Multi nutrient feed blocks
2. Oral calcium

Treatments

- T1 Farmers practices
- T2 MNFB + Galog bolus
- T3 MNFB + Galog bolus + Oral calcium

No of farmers: 4

Cost of critical inputs: 8,000/-

Period: Three years

4. HOME SCIENCE

Title: *Problem of Anaemia in adolescent girls of Pali district.*

Problem Diagnose:

Anaemia is a major global problem affecting between 20-70% of the population in various countries. In India it is important public health problem affecting people from all walks of life. In this series Rajasthan is also affected with anaemia and rural areas is severely suffered with it. This problem is severe in Pali district too especially in rural area.

What is anaemia:

Anaemia is defined as reduction in hemoglobin (Hb) level in circulation and it adolescent girls hemoglobin is required 10-13 mg/dl. Hemoglobin present in red cells contains iron which is needed to carry oxygen to all part of the body. For the formation and normal growth of red cells iron and vitamin like folic acid and B12 are essential. The measure problem of hemoglobin reduction is due to these factors.

1. Lower absorption rate of iron of foods such as legume, cereals due to inhibiting factors such as phytates tanines present in plant.
2. Lower consumption of vitC, calcium and protein rich food. That increases the bio-availability of iron in body.
3. Iron loses during menstruation (15-30mg every cycle) increase the iron requirement of adult women.
4. Demand of iron is substantially increased during pregnancy and growth.

So to emphasis on this problem health expert scientist's, village leaders team make a survey in villages of Pali district and found that there is a number of health problem in adolescent girls such as malnutrition anaemia, vit A deficiency, vit D deficiency, iodine

deficiency etc. But on the basis of ranking of these problems we found that anaemia is the major problem of Pali region in adolescent girls. These signs were seen in the target group-

- Pale eyes
- White nails (flat & thin)
- Tiredness
- Irritable behavior
- Prone to infection

Details of technologies selected for assessment/refinement:

- Selection of 60 girls from Pali district on the basis of signs of anemia.
- Taking their hemoglobin (< 10 mg/dl is selected for trial) and dietary assessment.
- Treatment selected.
 - T₁ – Control – (20 girls) no iron supplementation
 - T₂ – Experimental – (20 girls) iron enriched aonla candy supplementation as per dietary requirement of target group for 100 days.
 - T₃ – Experimental – (20 girls) Iron tablets supplementation as per doctor consult for 100 days.
- **Preparation of aonla candy-** Aonla rich in vit C & vit C increase the bio-availability of iron in body, so to increase the absorption of dietary iron, aonla candy is prepared and it is enriched by lotus stem powder that contains a good amount of iron.

Source of Technology: College of food and dairy technology MPUAT, Udaipur

Production system and thematic area: Nutrition management.

Performance of technology with performance indicator:

- **Clinical signs-** Pale eyes, thin and flat nails, irritable behavior etc.
- **Dietary survey-** 24 hours recall method for one day.
- **Hemoglobin test-** Clinical method.

Final recommendation for micro level situation: After conducting the OFT.

Constraints identified and feedback for research: After conducting the OFT.

Process of farmers participation and their reaction: After conducting the OFT.

5. AGRICULTURE EXTENSION

TITLE: ASSESSING EFFECT OF GROUP FORMATION ON SOCIAL CAPITAL AND RURAL LIVELIHOODS.

For sustainable livelihood a high level of social capital is a must in rural areas. It implies the idea that social bonds and norms are important for sustainable livelihoods. In most villages, farm families often resort to individual efforts which pay only average dividends. The success of self help groups and farm interest groups in improving rural incomes all over the world has proven this fact. The observation that in various micro location of the KVK, Pali, farm income are abysmally low coupled with poor avenue for farm women and rural youth. Village survey revealed that spirit of group activities lacking among the rural population. The OFT will be conducted in five different location in the district with following treatments.

Treatments

- T1 Self Help Groups with 20 farmers focusing on group farming
- T2 Self Help Groups with 20 farm women focusing on saving and income generation
- T3 Farmer Interest Group with 15 farmers which are product focused
- T4 Farmer Interest Group with 15 farm women which are enterprise focused

Cost of inputs: Rs. 5000/-

Source of technology: KVK, Pali

Period: One year