

Action plan (2013-2014)**(April – 2013 to March– 2014)**

It is proposed to organize 93 batches of training programmes for farmers, farm women, rural youth and extension functionaries during April 2013 to March 2014.

A. Training Programmes :**1. On Campus training (For practicing farmers, farm women and rural youth):**

Subject	Title of Training	Dura. Days	Tentative Date	No.of Parti.	Type of Parti.
1	2	3	4	5	6
I. Quarter : (1st April to 30th June, 2013)					
Crop Production	– Method of soil sample	1	25/4/13	25	Farmers
	– Importance of bio fertilizers in Agriculture	1	9/5/13	25	Farmers
Plant Protection	– Seed treatment for insect pests and diseases management.	1	31/5/13	25	Farmers & Farm Women
	– Insect pest management in storage of farm produces.	1	4/6/13	25	Farmers
Animal Science	– Quality improvement of roughages by Urea treatment	1	17/4/13	25	Farmers
Horticulture	– Improved cultivation practices of cucurbitaceous vegetables during summer	1	22/4/13	25	Farmers
Agril. Engg.	– Protected cultivation technology in agriculture (Green house technology)	1	15/5/13	25	Farmers
	– Rain water harvesting and their efficient use in crop production	1	20/5/13	25	Farmers
Home Science	– Preparation of bakery products with the help of Solar Cooker	1	29/4/13	25	Farm Women
	– Women and child care	1	26/4/13	25	Farm Women
II. Quarter : (1st July to 30th September, 2013)					
Crop Production	– Production technologies for major <i>kharif</i> crops.	1	15/7/13	25	Farmers
Plant Protection	– Integrated insect pests and diseases management in <i>kharif</i> crops	1	20/8/13	25	Farmers
	– Different formulation of pesticides and their application.	1	29/8/13	25	Farmers
Animal Science	– Management of reproductive and metabolic disorders in animals	1	12/7/13	25	Farmers
	– Fodder management in animal round the year.	1	13/8/13	25	Farmers
Horticulture	– Different propagation methods for fruit crops suitable for arid and semi arid region.	1	10/9/13	25	Farmers
	– Seed production of onion & garlic.	1	20/9/13	25	Farmers
Agril.Engg.	– Insitu moisture conservation practices in dry land agriculture	1	25/7/13	25	Farmers
Home Science	– Importance of green leafy vegetables in diet and preparing recipes from vegetables.	1	12/7/13	25	Farm women
III. Quarter : (1st October to 31st December, 2013)					
Crop Production	– Production technologies for major <i>Rabi</i> crops.	1	4/10/13	25	Farmers
Plant Protection	– Integrated insect pests & disease management in <i>Rabi</i> crops.	1	14/11/13	25	Farmers
Animal Science	– Control of ecto and endo parasites in cattles	1	16/10/13	25	Farmers
Horticulture	– Production technologies for <i>rabi</i> vegetables.	1	3/12/13	25	Farmers
Agril. Engg.	– Operational and maintenance of micro irrigation system	1	18/10/13	25	Farmers
Home Science	– Use of sprouted pulses in preparation of low cost nutrition diet.	1	11/10/13	25	Farm women
	– Home level processing of tomato	1	22/11/13	25	Farm women

IV. Quarter : (1st January to 31st March, 2014)					
Crop Production	- Production technologies for major summer crops	1	20/1/14	25	Farmers
	- Organic farming need in current scenario	1	23/2/14	25	Farmers
Plant Protection	- Control measures of insect pest in protected cultivation	1	29/2/14	25	Farmers
Animal Science	- Veterinary first aid & control of infectious diseases	1	03/1/14	25	Farmers
	- Care for clean milk production.	1	28/2/14	25	Farmers
Horticulture	- Improved cultivation practices for summer vegetables.	1	13/1/14	25	Farmers
	- Marketing management of protected cultivation produces	1	17/1/14	25	Farmers of P.C.
Agril. Engg.	- Selection, repair and maintenance of plant protection equipments	1	24/1/14	25	Farmers
	- Rain water harvesting in farm pond and well recharging	1	28/1/14	25	Farmers
Home Science	- Drudgery reducing devices for farm women	1	10/1/14	25	Farm women

2. Off Campus training (For practicing farmers, farm women and rural youth)

Subject	Title of Training	Dura Days	Tentative Date	No.of parti.	Type of Parti.
1	2	3	4	5	6
I. Quarter : (1st April to 30th June, 2013)					
Crop Production	- Importance of primary tillage.	1	29/4/13	25	Farmers
	- Importance of fertilizer management in cotton and groundnut crops	1	7/5/13	25	Farmers
Plant Protection	- Safe food and seed storage	1	2/4/13	25	Farmers
	- Seed treatment for insect pest & disease management.	1	5/6/13	25	Farmers
Animal Science	- Vaccination schedule against contagious diseases in animals and poultry.	1	25/4/13	25	Farmers
	- Importance of mineral mixture in feeding for cattle and buffaloes	1	15/5/13	25	Farmers
Horticulture	- Importance of drip irrigation in horticultural crops.	1	18/4/13	25	Farmers
Agril. Engg.	- Rain water harvesting and their efficient use in crop production	1	19/4/13	25	Farmers
	- Selection, maintenance and use of improved farm implements and machinery	1	13/6/13	25	Farmers
Home Science	- Preparation of handicraft items for rural girls	1	16/5/13	25	Farm women
	- Proper methods for cooking	1	14/6/13	25	Farm women
II. Quarter : (1st July to 30th September, 2013)					
Crop Production	- Fertilizer management in <i>Kharif</i> crops.	1	5/7/13	25	Farmers
	- Importance of organic farming	1	2/8/13	25	Farmers
Plant Protection	- Emerging insect pests & disease of Bt.cotton & their management.	1	16/7/13	25	Farmers
	- Role of botanical and bio pesticides for insect pest management	1	14/8/13	25	Farmers
	- Pest and disease management in protected cultivation.(Green house technology)	1	25/9/13	25	Farmers
Animal Science	- Deworming and vaccination in live stock	1	13/8/13	25	Farmers
	- Enrichment of low grade dry fodder for cattle	1	10/9/13	25	Farmers
Horticulture	- Preparation of planting materials in nursery	1	23/8/13	25	Farmers
	- Cultivation of vegetable & flower in green house.	1	12/9/13	25	Farmers
Agril. Engg.	- Selection and use of inter culturing operational tools	1	10/7/13	25	Farmers
	- Post harvest technology of different field crops	1	13/9/13	25	Farmers
Home Science	- Different methods of tie and dye work	1	30/8/13	25	Rural youth
	- Preparation of milk products	1	12/9/13	25	Rural youth

III. Quarter : (1st October to 31st December, 2013)					
Crop Production	- Irrigation management in cotton crop.	1	8/10/13	25	Farmers
	- Irrigation management in <i>Rabi</i> crops.	1	20/11/13	25	Farmers
Plant Protection	- Ecofriendly management of insect pests & disease in vegetable crops.	1	28/10/13	25	Farmers
	- Different formulation of pesticides and their applications	1	21/11/13	25	Farmers
Animal Science	- Minimizing the mortality of buffalo calves during winter season	1	10/10/13	25	Farmers
	- Control of common diseases in livestock & vaccination scheduling	1	5/11/13	25	Farmers
Horticulture	- Cultivation practices for onion & garlic.	1	4/12/13	25	Farmers
Agril. Engg.	- Management of salt affected soil	1	20/11/13	25	Farmers
	- Importance of non-conventional source of energy in agriculture	1	19/12/13	25	Farmers
Home Science	- Value addition in anola.	1	22/11/13	25	Farm women
	- Home level processing of tomato	1	17/12/13	25	Farm women
IV. Quarter : (1st January to 31st March, 2014)					
Crop Production	- Value addition in wheat & cumin	1	4/1/14	25	Farmers
	- Importance of soil analysis and method of soil sampling	1	10/2/14	25	Farmers
Pl. Protection	- Management of insect pest & disease in summer crops.	1	16/2/14	25	Farmers
	- Integrated management of non insect pests (Rat and Termite) in field condition.	1	23/3/14	25	Farmers
Animal Science	- Optimizing reproductive efficiency & to reduce age of 1st calving (AFC)	1	6/1/14	25	Farmers
	- Importance of Artificial Insemination in Cattle & Buffaloes	1	12/2/14	25	Farmers
Horticulture	- Grading, sorting and pawing of fruits & vegetables.	1	3/2/14	25	Farmers
Agril. Engg.	- Rain water harvesting in farm pond and well recharging	1	17/2/14	25	Farmers
	- Importance of secondary agriculture	1	15/3/14	25	Farmers
Home Science	- Vaseline and bam making	1	17/1/14	25	Farm Women
	- Preparation and preservation of fruits & vegetables	1	12/2/14	25	Farm Women

3. Vocational Training :

Sr. No.	Title of Training	Dura. Days	Tentative Date	No. of parti	Type of Parti.
1.	-Preparation and preservation of fruits & vegetables products	6	20-24/2/14	25	Rural Girls
2.	-Preparation of different masala	2	29-30/5/13	25	Rural Girls

4. Extension Functionaries Training:

Sr. No.	Title of Training	Dura. Days	Tentative Date	No. of parti.	Type of Parti.
1.	- Watershed management	1	17/7/13	25	Extension Functionaries Of DWDU
2.	- Integrated sucking insect pests management in Bt. Cotton	1	16/09/13	25	Extension Functionaries of Agriculture Department
3.	-Technique for artificial insemination	1	12/8/13	25	A.I.Workers
4.	- Fruit & vegetable production technology	1	30/12/13	25	Extension Functionaries of ATMA

5. Sponsored/ Collaborative Training with Other Organizations:

Sr. No.	Title of Training	Dura. Days	Tentative Date	No. of parti.	Type of Parti.	Sponsoring Agency
1.	- Scientific Dairy management	1	25/10/13	25	Farmers	ATMA-Rajkot
2.	- Nutritional management in Mother and Child	1	27/11/13	25	Farmers	PHC
3.	- Cottage level food processing entrepreneurship for farmers	1	10/10/13	25	Rural youth	IICPT
4.	- Protected cultivation in vegetable crops	1	10/11/13	25	Farmers	ATMA-Rajkot
5.	- Importance of Biopesticide and their uses	1	20/8/13	25	Farmers	FTC-Rajkot

Training Programme : Quarter wise Summary :

Sr. No.	Subject	On Campus					Off Campus					G.T.
		*1	2	3	4	T	1	2	3	4	T	
1.	Crop Production	2	1	1	2	6	2	2	2	2	8	14
2.	Pl. Protection	2	2	1	1	6	2	3	2	2	9	15
3.	Animal Science	1	2	1	2	6	2	2	2	2	8	14
4.	Horticulture	1	2	1	2	6	1	2	1	1	5	11
5.	Agril. Engineering	2	1	1	2	6	2	2	2	2	8	14
6.	Home science	2	1	2	1	6	2	2	2	2	8	14
	Total	10	9	7	10	36	11	13	11	11	46	82

T = Total , G.T. = Grand Total , * 1, 2, 3, 4 = Quarter

Summary of Training programme : Discipline wise

Sr. No.	Subject	On + Off	Vocational	In service	Sponsored	Total
1.	Crop Production	14	-	-	1	15
2.	Plant protection	15	-	1	1	17
3.	Animal Science	14	-	1	1	16
4.	Horticulture	11	-	1	-	12
5.	Agril. Engineering	14	-	1	1	16
6.	Home science	14	2	-	1	17
	Total	82	2	4	5	93

B. Front Line Demonstrations (Proposed)

Sr. No.	Crop	Variety	Objective	No. of Demons.	Area (ha)
Oilseed					
1	Groundnut	GJG-31/ GJG-9	To test yield potentiality of newly released groundnut varieties	10	4.0
2	Groundnut	GG-20	Management of major disease of groundnut	10	4.0
3	Sesamum	G.Til-3/ G.Til-10	To test yield potentiality of newly released sesamum varieties	10	4.0
Pulses					
1	Green gram	GM-4	Green gram as a inter crop for minimizing risk factor	5	2.0
2	Cluster bean (Gum guvar)	Guj-2	To test yield potentiality of cluster bean (Gum guvar)	10	4.0
3.	Chickpea	GJG-3	To test yield potentiality of newly released Chickpea variety	10	4.0
Cereals					
1	Wheat	GW-366	Quality production of wheat through spraying of fungicide at milking stage.	10	4.0
Other Crops					
1	Cumin	GC-4	Management of wilt through bio agent	10	4.0
2	Bt. cotton	BG-II	To reduce the reddening in cotton	10	4.0

FLD Other than crops					
1	Animals	Mineral mixture powder	To balance the deficiency of minerals in animals	10	-
2	Fodder crops	Oat-Kent	To introduce new fodder crop variety	10	4.0
3	Energy booster	-	To balance the energy in animals	20	-
4	Solar energy	Box type solar cooker	To Introduce solar cooker in rural area	10	-
Total				135	38.0

C. ON FARM TESTING (OFTs)

OFT-1

Title : Low yield of cotton

Objective : To increase the yield by balance fertilization

Treatments:

1. Farmer's practices
2. Recommended dose of fertilizer (160-0-0) in four split in which second split in form of Ammonium Sulphate
3. T₂ + 50 kg P₂O₅ ha⁻¹ through DAP + 50 kg K₂O ha⁻¹ through MOP as a basal dose.
4. T₃ + 25 kg MgSO₄ ha⁻¹ + 10 kg ZnSO₄ as a basal dose.

OFT-2

Title : Management of sucking pests in cotton.

Objective: To minimize the sucking pest in cotton.

Treatments :

1. Continuous spraying of chemical pesticides. (Farmers practice)
2. IPM : alternate spraying of chemical and bio pesticide and intercropping of maize / cow pea with cotton 1:10 Row (Recommended practice)
3. Spraying of chemical pesticide @ half does of recommendation with bio pesticide i.e. Azadirachtin 1500 ppm or *verticillium lecanii* and growing of maize / cowpea as mix crop with cotton. (Intervention)

OFT- 3

Title : Low yield in groundnut due to improper tillage practice

Objective: Soil moisture conservation through deep plowing up to 20 cm depth

Treatments :

1. Shallow ploughing with 7-8 inter culturing (Farmers method)
2. Deep ploughing with 2-4 inter culturing (Recommended Practice)
3. Medium deep ploughing with 4-5 times inter culturing (Intervention)

OFT- 4

Title : **Assessment of Fertility improvement in Buffalo**

Problem diagnose : Long inter calving period

Treatments :

T1- Farmers practice : FP - No any intervention

T2- Recommended Technology : Treated by "OVSYNCH" protocol as per NDRI Karnal

T3- Technology Assessed : Treated with Mineral Mixture + deworming tablets + Bio-Heat tablets.

Number of replication	:	06
Source of technology	:	NDRI Karnal
Thematic area	:	Dairy Management
Indicator/Parameter	:	Occurrence of heat, conception rate and no. of insemination/animal

OFT- 5

Title :- Comparison of solar cooker with traditional cooking system

Items:-

1. Murbba,
2. sweet potato,
3. sweet corn,
4. Roasted groundnut

Objective:-

- (1) To improve quality of Prepared items
- (2) To reduce drudgery of farm women
- (3) To reduce time and fuel consumption

Treatment: - Item no. 1

- (1) Preparation by traditional method
- (2) preparation by sunlight heat
- (3) preparation by solar cooker

Treatment: - Item no. 2-4

- (1) Preparation by traditional method
- (2) Preparation by roasting
- (3) Preparation by solar cooker

No. of Replications: - 4

Observations:-

- (1) Time consumption
- (2) Fuel consumption
- (3) Movement
- (4) Cost saving
- (5) Organo laptic test
 - a. Colour
 - b. Texture,
 - c. Test
 - d. Consistency
 - e. Overall acceptance
- (6) Keeping quality

4. Extension Activities:

Sr. No.	Activity	Proposed No.
1	Kisan Mela	1
2	Field Day	5
3	Kisan Ghosthi	12
4	Radio Talk	As and when require
5	TV Show	As and when require
6	Film Show	12
7	Animal Health Camp	4
8	Improved implements demonstration	5
9	Khedut shibir	10
10	Kisan mahila meeting	2
11	News paper Coverage	As and when require
12	Popular Articles	16
13	Extension Literature	5
14	Advisory Service	As and when require
15	Ex-Trainee Sammelan	1
16	Seminar	1
17	Pashu Mela	1
18	Exhibition	1
19	Night meeting	6