

ANNUAL ACTION PLAN

(APRIL - 2014 TO MARCH-2015)

OF

KRISHI VIGYAN KENDRA

JAMNAGAR

TO BE PRESENTED AT
SARDAR KRISHINAGAR DANTIWADA AGRICULTURAL UNIVERSITY,
SARDAR KRISHINAGAR

During
24 to 26 May, 2014

PREPARED/COMPILED By
Dr. K. P. Baraiya, Senior Scientist & Head
Smt. A. K. Baraiya, Scientist



KRISHI VIGYAN KENDRA
JUNAGADH AGRICULTURAL UNIVERSITY
JAMNAGAR-361 006
GUJARAT



**KRISHI VIGYAN KENDRA
JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR**

GENERAL INFORMATION ABOUT THE KVK**2.1.1 Name and address of KVK with phone, fax and e-mail**

Address	Telephone		E mail	Web address
	Office	FAX		
Krishi Vigyan Kendra Millet Research Station, JAU Airforce Road, Opp. Digjam Mill Jamnagar- 361 006	(0288) 2710165	(0288) 2710165	kvkjamnagar@jau.in kvkjamnagar@gmail.com	www.jau.in

2.1.2. Name and address of host organization with phone, fax and e-mail

Address	Telephone		E-mail	Web address
	Office	FAX		
Junagadh Agricultural University, Junagadh – 362 001 (Gujarat)	PBX 2672080-90	(0285) 2672653	dee@jau.in	www.jau.in

2.1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. K. L. Raghvani	I/c. Programme Coordinator Krishi Vigyan Kendra Junagadh Agricultural University, Airforce Road, Opp. Digjam Mill Jamnagar- 361 006 Ph. (0281)2584848	9427497561	kvkjamnagar@gmail.com kvkjamnagar@jau.in

2.2 Priority thrust areas

Sl. No	Crop/ Enterprise	Thrust area
1.	Cotton, groundnut, castor, cumin, wheat, vegetables, fruits, etc.	<ul style="list-style-type: none"> ➤ Integrated Crop Management in major crops ➤ IPM & IDM in major field crops ➤ Whitegrub management in Groundnut ➤ Wireworm management in garlic & Onion ➤ Micronutrient management in wheat
2.	Organic matter	Recycling of farm waste through composting, vermicompost, green manuring, etc.
3.	Water conservation & use of Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques
4.	Soil	Reclamation of saline & alkaline soils & soil fertility management
5.	Farm Women	Farm women empowerment by training in value addition, handi crafts, and small scale enterprises
6.	Improved Implements	Popularization of the mechanized technological know how
7.	Fisheries	Motivation of fisheries cultivation
8.	Animal Husbandry	Breed improvement for higher milk production
9.	Horticultural crops	Production technology of pomegranate and other dried fruits.

Staff Position (as on 31st January, 2014)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Highest qualification	Pay Scale	Present basic	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. K.L. Raghvani	PC	Plant Protection	Ph.D	37400-67000	57680	01.02.13	Temp	OBC
2	Subject Matter Specialist	Vaccant		Crop Production		15600-39100	-	-	-	-
3	Subject Matter Specialist	Dr. K.P. Baraiya	SMS	Plant Protection	Ph.D	15600-39100	20590	17-8-06	Temp	Other
4	Subject Matter Specialist	Vaccant	SMS	Horti.	-	15600-39100	-	-	-	-
5	Subject Matter Specialist	Shri P. S. Gorfad	SMS	Extension Education	Ph.D.	15600-39100	21810	24-3-95	Temp.	OBC
6	Subject Matter Specialist	Dr. J. N. Thaker	SMS	Fisheries	Ph.D.	15600-39100	20590	31-08-06	Temp.	Other
7	Subject Matter Specialist	Smt. A. K. Baraiya	SMS	Home Science	M.Sc.	15600-39100	15600	17-08-06	Temp.	Other
8	Farm Manager	Shri S.N. Galani	Prog. Asstt.	PBG	M.Sc.	9300-34800	10000	01-09-13	Fix Pay	Other
9	Computer Programmer	Shri C. P. Padhiyar	Prog. Asstt.	Computer Operator	M. C. A.	9300-34800	10000	01-08-13	Fix Pay	Other
10	Programme Assistant	Vaccant	Prog. Asstt.	-	M.Sc.	9300-34800	10000	01-09-13	Fix Pay	Other
11	Accountant / Superintendent	Shri. K.G. Dhaduk	Sr. Clerk	Adm.	M.com	9300-34800	9300	12-6-08		Other
12	Stenographer	Kum. B. N. Dave	Sr. Clerk	Adm.	B.Com	5200-20200	5300	13.12.14	Fix Pay	Other
13	Driver	Vacant	Driver	Supt.	-	5200-20200	-	-	-	-
14	Driver	Shri. D.M. Chauhan	Driver	Supt. (Fix)	9 STD	5200-20200	6070	9-10-07	Temp.	S. T.
15	Supporting staff	Shri A. H. Khureshi	Peon	Supt.	7 STD	4440-7440	9120	1-08-13	Temp.	OBC
16	Supporting staff	Shri P. S. Damor	Peon	Supt.	12 STD.	4440-7440	4800	1-9-06	Temp.	S. T.

2.6 PERFORMANCE OF INFRASTRUCTURE IN KVK**2.6.1 Performance of demonstration units (other than instructional farm)**

Sl. No.	Demonstration Units	Year of Establishment	Area	Details of production			Amount (Rs.)		Remark
				Variety	produce	Quantity (Qtl)	Cost of inputs	Gross income	
1	Horticulture Unit	2012-13	3.5 Ha	Guavava	Fruit	160 kg	-	4000/-	
				Sapota	Fruit	124			
				Pomogranet	Fruit	52			
				Custard apple	Fruit	25			
				Aonla	Fruit	18			

2.6.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Area (ha)	Details of production			Amount (Rs.)		Remarks
			Variety	Type of Produce	Qty. kg	Cost of inputs	Gross income	
Wheat	29/10	1.00	GW-496	Grain	2390			
				Fodder	2215			
Sorghum	20.6.13	8.3	GJ-38	Green fodder	34750			
				Dry fodder	30600			
Maize	25.06.13	0.65	Local	Green fodder	5810			
Oat	April-12	0.3		Green fodder	7300			
				Dry Fodder	880			
Lucern	12.10.12	0.4	Annand-2	Green fodder	8700			

2.6.3 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.	Gir Cow	Gir Cow	Milk	6400	-	179200	
2.		Gir Cow	FYM	18000			

2.7 Status of revolving fund

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
1 st April 2013 to 31 st January, 2013	3403569	360157	423250	3403439

INFRASTRUCTURE NEEDED**(a) Vehicle :-**

Name of the KVK :Krishi Vigyan Kendra, JAU, JAMNAGAR				State :	Gujarat	
Sl.No .	Name of the Vehicle	Quantity available	Condition	Requirement during XII Plan		Justification
				Quantity	Amount	
1	FOUR WHEELER				(Rs. in Lakh.)	
i)	Minibus			1	Rs.25.00	Mini bus will be required
ii)	Jeep	1	Medium	1	Rs.10.00	It require to replacement (4 lakhs km Runs)
TOTAL		2		2	Rs.35.00	

(b) Building, fencing, maintenance, demo unit etc.

Sl.No.	Name of the Equipment	Quantity	Requirement during XII Plan		Justification
			Quantity	Amount	

		avail able			
A	OFFICE EQUIPMENTS				
i)	Xerox Machine	1	1	Rs.2.50	
ii)	Computer with accessories	2	5	Rs.4.00	
v)	Fax Machine	0	1	Rs.0.50	
vii)	Laptop with accessory (core i 7)	0	1	Rs.1.00	
viii)	Solar water heater for farmer Hostel	0	4	Rs.1.00	
ix)	Water cooler with RO System for farmers	0	1	Rs.2.00	
x)	High Speed Copier Machine	0	1	Rs.2.00	
B	AV AIDS				
iv)	Public Address System	0	1	Rs.2.00	
vi)	Wall Scroller	0	2	Rs.1.50	
C	FARM IMPLEMENTS				
vi)	Wheat Thressure (Fukaniyu)	0	0	Rs.2.00	
D	WORKS				
	Farmers hostel (To extend capacity)	1	1	Rs.100.00	
	Museum		1	Rs.15.00	
	Fencing cum boundary wall	1	1	Rs.150.00	
	Road formation	0	2000 m	Rs.75.00	
	Threshing and drying yard	0	200 sq m	Rs.25.00	
	Storage Godown	1	1	Rs.15.00	
	GRAND TOTAL			Rs. 396.00	

Budget Requirement

Sr. No.	Head	Actual Expenditure from 1.4.2013 TO 31.01.2014 (10 Months)	Anticipated Expenditure From 01.02.2014 TO 31.03.2014 (2 Months)	Proposed Revised Estimate 2013-14 (COL 2+3)
A.	RECURRING			
1	Pay & Allowance	5016819	983181	6000000
2	Traveling Allow	86513	63487	150000
3	Contingencies	928487	421513	1350000
TOTAL (A)		6031819	1485000	7500000
(B)	NON RECURRING	-	-	-
4	vehicle	-	-	-
Total (B)			-	-
GRAND TOTAL(A+B)		6031819	1468181	7500000

ACTION PLAN (APRIL – 2014 TO MARCH – 2015)

It is proposed to organize 69 batches of training programmes for farmers, farmwomen, rural youth and extension functionaries during period from April 2014 to March 2015.

1. Training Programmes :

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

Subject	Title of Training	Dura Days	No.of Parti.	Type of Parti.
I. Quarter :	(1st April to 30th June, 2014)			
Crop Production	➤ Techniques of weed Management in major <i>kharif</i> crops	3	25	Farmers
Soil health and fertility mangt.	➤ Importance of Soil testing and fertility management	3	25	Farmers
Plant Protection	➤ IPM in vegetable and summer crops	3	25	Farmers
Fisheries	➤ Importance and Techniques of Cage Culture and Pen culture	3	25	Fishermen
Extension	➤ Use of ICT in agriculture	3	25	Farmers
II. Quarter :	(1st July to 30th September, 2014)	3		
Crop production	➤ Water management through micro irrigation system	3	25	Farmers
Soil health and fertility mangt.	➤ Integrated Nutrient management	3	25	Farmers
Plant protection	➤ IPM and IDM in vegetable and field crops	3	25	Farmers
Fisheries	➤ Importance of composite fish culture of Indian Major Carp and Exotic Carp Spp.	3	25	Farmers
Extension	➤ Leadership Development	3	25	Rural youth
Agril. Engineering	➤ Use of MIS in field crops	3	25	Farmers
III. Quarter	(1st Oct to 31st Dec, 2014)	3		
Crop production	➤ Organic Farming	3	25	Farmers
Horticulture	➤ Production & Management practices of spices	3	25	Farmers
Soil health and fertility mangt.	➤ Importance of major and micro nutrient in crops production	3	25	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	3	25	Farmers
Home Science	➤ Women and child care	3	25	Rural women
Agril. Engineering	➤ Use of plastics mulch in farming practices	3	25	Farmers
Plant Protection	➤ IPM and IDM in rabi crops	3	25	Farmers
Fisheries	➤ To create awareness about environment protection among fishermen	3	25	Fish farmers
Ext. Education	➤ Entrepreneurial Development of farmers / rural youths	3	25	Rural youth
IV. Quarter	(1st Jan to 31st March, 2015)	3		
Horticulture	➤ Protected cultivation (Green House, shed net etc.)	3	25	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	3	25	Farmers
Home science	➤ Value addition in agricultural produce	3	25	Rural Girls
Agril. Engineering	➤ Food processing and value addition	3	25	Farmers
Plant protection	➤ Pest management of vegetable crops	3	25	Farmers
Fisheries'	➤ Development of Small Scale ornamental fish hatchery	3	25	Fish Farmers
Extension	➤ Group dynamics	3	25	rural youth

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

Subject	Title of Training	Dura Days	No.of parti.	Type of Parti.
I. Quarter : (1st April to 30th June, 2014)				
Crop Production	➤ Water management through micro irrigation system	1	50	Farmers
Soil health and fertility mangt.	➤ Soil sampling methods and fertility management	1	50	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	50	Farmers
Home Science	➤ Value addition in mango	1	50	Rural Girls
	➤ Use of Solar cooker	1	50	Rural girls
Agril. Engineering	➤ Use of Plastick mulch in farming practices	1	50	Farmers
Pl. Protection	➤ Integrated pest and disease management in summer crops	1	50	Farmers
	➤ Management of store grain pest in groundnut and pulse crop	1	50	Farmers
Fisheries	➤ Mix culture of Crap spp. with fresh water prawn.	1	50	Fish farmer
	➤ Value addition through Crab fattening	1	50	Fisher men
Extension	➤ Leadership development among rural youths	1	50	Rural youth
II. Quarter : (1st July to 30th September, 2014)				
Crop production	➤ Weed management techniques	1	50	Farmers
Soil health and fertility mangt.	➤ Integrated Nutrient management	1	50	Farmers
Home science	➤ Women and child care	1	50	Farm Women
	➤ Location specific drudgery reduction technologies	1	50	Farm women
Agril. Engg.	➤ Installation, maintenance and fertigation through MIS	1	50	Farmers
Pl. Protection	➤ IPM in cotton and sesame	1	50	Farmers
	➤ Management of diseases in <i>kharif</i> crops	1	50	Farmers
Fisheries	➤ Fishing technology for Ghol and Dhara Spp.	1	50	Fish farmers
	➤ Create awareness about environment protection among fishermen	1	50	Fish farmers
Extension	➤ Information sources for Agricultural development	1	50	Farmers
III. Quarter (1st Oct to 31st Dec, 2014)				
Crop production	➤ Production technology of major <i>rabi</i> crops	1	50	Farmers
Horticulture	➤ Production & Management practices of spices	1	50	Farmers
Soil health and fertility mangt.	➤ Nutrient use efficiency	1	50	Farmers
Livestock Prod.	➤ Higher milk production by improving of breed, nutrition and feed management	1	50	Farmers
Agril. Engg.	➤ Use of plastics mulch MIS in farming practices	1	50	Farmers
	➤ Repairs and maintenance of farm implements	1	50	Farmers
Home Science	➤ Rural crafts	1	50	Rural women
	➤ Value addition in fruits and vegetables through jam, jelly, catchup, pickles, etc.	1	50	Rural women
Pl. Protection	➤ Integrated Disease and pest management in cumin and gram	1	50	Farmers
	➤ IPM in vegetable crops	1	50	Farmers
Fisheries	➤ Use of waste land in shrimp farming	1	50	Fish Farmers
	➤ Importance of composite fish culture of Indian Major Carp and Exotic Carp Spp.	1	50	Fish Farmers

Extension Education	➤ Development of entrepreneurship among rural youths	1	50	Rural youth
IV. Quarter	(1st Jan to 31st March, 2015)			
Crop Production	➤ Recycling of Farm Waste material	1	50	Farmers
Horticulture	➤ Protective cultivation (Green House, shed net etc.)	1	50	Farmers
Livestock Prod.	➤ Animal Nutrition and feed management	1	50	Farmers
Home science	➤ Value addition in fruit and vegetable	1	50	Rural women
Agril. Engineering	➤ Operation and maintenance of farm implements	1	50	Farmers
Pl. Protection	➤ Integrated diseases management in rabi crops	1	50	Farmers
	➤ Integrated pest management in fruit and vegetable	1	50	Farmers
Fishries	➤ Skill development for value addition in fisheries sector	1	50	Fish farmers
	➤ Importance and techniques for cage culture and pen culture	1	50	Fish farmers
Extension	➤ Capacity building of self help group	1	50	Rural youth

C. Vocational Training:

Sr. No.	Title of Training	Dura. Days	No. of parti	Type of Parti.
1.	Preservation of vegetables and fruits	1	25	Rural Girls
2.	Preservation of mango pulp	1	25	Farm women
3.	Repairs and maintenance of tractor and farm implements	1	25	Rural Youth
4	Rearing Techniques of ornamental fish, fish production & value aditon	1	25	Rural Youth
5	Propogation of sea weed culture & Preparation of sea weed fertilizer	1	25	Rural Youth

D. Extension Functionaries:

Sr. No.	Title of Training	Dura. Days	No. of parti.	Type of Parti.
1.	Pre-seasonal training on <i>kharif</i> crops	1	20	Extension workers
2.	Integrated Disease management in <i>Kharif</i> crops	1	20	Extension Workers
3.	Production technology in <i>rabi</i> crops	1	20	Extension workers

E. Training Programme : Quarter wise Summary :

Sr. No.	Subject	On-Campus					Off-Campus					GT
		Quarter					Quarter					
		I	II	III	IV	Total	I	II	III	IV	Total	
1	Crop production	1	1	1	0	3	1	1	1	1	4	7
2	Soil Health and Fertility Management	1	1	1	0	3	1	1	1	0	3	6
3	Plant Protection	1	1	1	1	4	2	2	2	2	8	12
4	Fisheries	1	1	1	1	4	2	2	2	2	8	12
5	Extension Edu.	1	1	1	1	4	1	1	1	1	4	8
6	Horticulture	0	0	1	1	2	2	2	2	1	7	9
7	Home Science	0	0	1	1	2	0	0	1	1	2	4
8	Agri engineering	0	1	1	1	3	1	1	2	1	5	8
	Animal Science	0	0	1	1	2	1	0	1	1	3	5
	Total	5	6	9	7	27	11	10	13	10	44	71

2. Front Line Demonstrations (Proposed)

Sr. No.	Crop	Season	Variety/ Component	Title	No. of Demons.	Area (ha)
	FLD - Pulses					
1	Green gram	Summer	G-4	Package of Practices	10	4.0
2	Chick pea	Rabi	GJG-3	Package of Practices	15	6.0
	Oilseeds					
1	Groundnut	Kharif	GG-20	IPM (White grub)	25	10
	Other Crops					
1	Wheat	Rabi		INM in wheat	20	10
2	Cumin	Rabi	Guj.Cumin-4	Package of practices, IDM	10	4
3	Pearl millet	Summer	GHB-538	To test yield potentiality of pearl millet	10	4
4	Cotton			IPM	25	10
5	Okra	Summer		IPM	5	2
6	Tomato	Rabi		IPM	5	2
	Component Demonstration					
1.	Groundnut	Kharif	Trichoderma	-Reduce infestation of stem rot	5	2
2.	Groundnut	Kharif	NPV	- Reduce pest attack	5	2
3.	Farm implement		-	-	5	5
4.	Tractor operated sprayer		-	-	5	5
5.	Groundnut digger		-	-	10	10
6.	Aeroblast sprayer		-	-	15	15
7.	Solar cooker (Box Type)		-	Popularization of alternate use of solar energy	5	5
			Total		175	96

3. ON FARM TESTING (OFTs)**OFT-1**

Title : Management of whitegrub in groundnut

Objective : To manage the whitegrub incidence

Treatments :

1. Injudicious use of pesticides. **(Farmers Practices).**
2. Recommended dose of Pesticide as chlorpyrifos or quinalphos @ 25 ml/kg seed. Drenching of Chlorpyrifos or quinalphos @ 4 lit/ha as initiation of pest incidence. **(Recommended practices).**
3. Application of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 2.5 gl/kg seed. Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 250 g/ha as initiation of pest incidence. **(Refinement).**
4. Soil application of *Beauveria bassiana* @ 5 kg/ha

No. of Replication :- 3 (Farmers)

Observations :-

1. Record no.of grub per 1 metre row lenth.
2. Yield data.

OFT-2

Title : Use of *Trichoderma* for wilt disease in cumin

Objective : Application of biological control agent *Trichoderma* for managing the disease problem in cumin.

Treatments :

1. No use of trichoderma or fungicide at the time of sowing. But they use fungicides viz., carbendazim, hexaconazole, difenconazole, fosetyl-AL, tebuconazole, proticonazole, tridemorph, etc after of initiation of diseases. **(Farmers Practices).**

2. Application of *Trichoderma* @ 2.5 kg/ha with castor cake @ 500 kg/ha at the time of sowing with the help of multi purpose seed drill. **(Recommended practices).**
3. Application of *Trichoderma* @ 2.5 kg/ha along with compost or castor cake 500 kg/ha at the time of sowing and second application with compost/ castor cake by broadcasting method at 15 days after germination. **(Refinement).**

No. of Replication :- 3 (Farmers)

Observations :-

1. Per cent plant infestation within 1x1 m² quadrat from each plot at 45 days after germination
2. Record yield per hectare.

OFT-3

Title : Management of sucking pests in Okra.

Objective: To minimize the sucking pest in cotton.

Treatments :

1. Injudicious use of insecticides (Spray insecticides at weekly interval) **(Farmers practices)**
2. Use of bio-pesticides (*Beauveria bassiana* @ 5 g/lit of water) **(Recommended practices)**
3. Alternate spray of *Beauveria bassiana* @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval **(Refinement - 1)**
4. Seed treatment with thiomethoxam 35% FS @ 6 ml/kg seed followed by foliar application of *Beauveria bassiana* at 15 days interval starting from 30 days after sowing. **(Refinement - 2)**

No. of Replication :- 3 (Farmers)

Observations :-

1. Record pest population from 1x1 m² quadrat from each plot at 7 days after spray
2. Record yield at every picking.
3. Record yellow vein mosaic.

OFT-4

Title : Spoilage in mango pickle

Objective:

1. To prevent soft and slippery pickle
2. To increase self life of pickle
3. Cost saving

Treatments :

Common ingredients use for all treatments:- Mango 1 kg, turmeric powder 5 gm, jaggari/sugar 600 gm, fenugreek 50 gm, mustard 30 gm, asafoetida (hing) 5 gm, coriander 30 gm, funnel 30 gm, red chilly powder 30 gm.

1. Solt 12% (120 gm) + Oil 800ml/ kg mango **(Farmers practices)**
2. Solt 15% (150 gm) + Oil 250ml/ kg mango **(Recommended practices)**
3. Solt 20% (200 gm) + Oil 200ml/ kg mango **(Refinement)**

No. of Replication :- 3 (Farm women)

Observations :-

1. Self life (days)
2. Colour
3. Texture
4. Cost

OFT-5

Title :- Comparison of solar cooker with traditional cooking system

Items:-

1. Murbba,
2. sweet potato,
3. sweet corn,
4. Salted -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. Organoleptic test
 - a. Colour
 - b. Texture,
 - c. Test
 - d. Overall acceptance
5. Self life

OFT-6

Title : Growth retardation due to over stocking of fish species in ponds/reservoirs.

Objective: To increase overall production of fish by increasing fish growth.

Experimental Animal : Indian Major Carp Species

Treatments :

1. Fish farmers practices : Over stocking of fish species (1,25,000 to 1,50,000 fingerlings per hector
2. **Recommendation** : 75,000 to 80,000 fingerlings per hector stocking density
3. **Refinement** : 1,00,000 fingerlings per hector stocking density

No. of Replication :- 3 (Farmers)

Observations :-

1. Growth development (Length x width x weight) at regular interval
2. Total No. of fish (approximately) survive in the pond.
3. Total production (in kg.)

OFT-7

Title : Low yield of fish

Objective: To increase growth and total yield of fish by application of organic and inorganic fertilizer in pond.

Problem: Due to insufficient live food in pond at the time of stocking the growth become slow at earlier stage

Intervention: Due to manuring or application of organic and inorganic fertilizer, before stocking, the productivity of pond will increase and sufficient live feed (micro algae, planktons, diatoms, etc.) containing high protein level, increase the fish body growth.

Treatments :

1. Farmers Practices
2. Application of organic manure (Cow dung @ 10 tons/ha at three split. (**Recommendation**))
3. Organic manure @ 5 tons/ha + urea @ 50 kg/ha, SSP @ 250 kg/ha, MOP @ 40 kg/ha in three split at monthly interval (**Refinement**)

No. of Replication :- 3 (Farmers)

Observations :-

1. Measure Growth rate (size & weight of fish) at monthly interval

2. Total production (in kg.)

OFT-8**Title :** Nutrient management in wheat crop**Objective :** To increase yield of wheat**Treatments :**

1. Injudicious use of fertilizer (200 N - 90 P₂O₅ - 0 K₂O). (**Farmers Practices**).
2. Recommended dose of fertilizer (120 N - 60 P₂O₅ - 0 K₂O) + ZnSO₄ @ 25 kg/ha (**Recommendation practices**).
3. Recommended dose of fertilizer (120 N - 60 P₂O₅ - 0 K₂O) + ZnSO₄ @ 25 kg/ha and two spay of multi mix micro nutrient @ 30 g/10 lit of water at 30, and 45 days after germination. (**Refinement**).

No. of Replication :- 3 (Farmers)**Observations :-**

1. Grain and fodder yield of wheat.

4. EXTENSION PROGRAMMES (including activities of FLD programmes)

Sl. No.	Nature of Extension Programme	Proposed No. of Activity
1	Field Day	15
2	Kisan Mela	0
3	Kisan Ghosthi	4
4	Exhibition	1
5	Film Show	10
6	Method Demonstrations	2
7	Farmers Seminar	5
8	Workshop	0
9	Group meetings	5
10	Lectures delivered as resource persons	20
11	Newspaper coverage	2
12	Radio talks	1
13	TV talks	1
14	Popular articles	4
15	Extension Literature	5
16	Advisory Services	50
17	Scientific visit to farmers field	20
18	Farmers visit to KVK	50
19	Diagnostic visits	10
20	Exposure visits	1
21	Ex-trainees Sammelan	1
22	Soil health Camp	0
23	Animal Health Camp	0
24	Agri mobile clinic	1000
25	Soil test campaigns	0
26	Farm Science Club Conveners meet	1
27	Self Help Group Conveners meetings	0
28	Mahila Mandals Conveners meetings	0
29	Celebration of important days (specify)	0
30	Female groups	1
31	Night Meeting	5
32	Crop Shibir/Farmer shibir	1
33	Colloborative training	4
34	Training to Extension Functionaries	3
35	Any Other (Specify)	5
	Total	

* Other extension activity will be carried out as per need bases.