

**ANNUAL ACTION PLAN: 2009-10**

**KVK, LOHIT DISTRICT, ARUNACHAL PRADESH**

**PART – I  
(GENERAL INFORMATION)**

**1. General information about the KVK**

**Name and address of KVK with Phone, Fax and E-mail\*: KVK Lohit District**

Complete postal address with Pin Code	Telephone	Fax	E mail
KVK Lohit District, Momong, Arunachal Pradesh Pin.- 792 104	03806-200100	03806-222381	cpkvk_lohit@rediffmail.com

**Name and address of host organization with Phone, Fax and E-mail\***

Complete postal address with Pin Code	Telephone	Fax	E mail
NRC on Yak (ICAR), Dirang	03780-242259	03780-242273	yakdirector@gmail.com

**Name of the Programme Coordinator with Landline & Mobile No\***

Name of PC	Contacts		
	Residence	Mobile	E mail
Dr. Leema Bora (In-charge)	03780-242220-236	9436228003	leemabora@gmail.com

**\* = Mandatory and to be provided without fail.**

**Year of sanction of KVK: 2006-07**

**Scientific Staff Position\* (As on 30<sup>th</sup> August, 2009)**

No.	Sanctioned posts	Name of the incumbent	Designation	Discipline	Date of joining	Permanent /Temporary
1	Programme Coordinator	i/c Dr. Leema Bora	Technical Officer in NRC on Yak & i/c KVK	Veterinary Extension	24.10.2007	Temporary
2	Subject Matter Specialist	Dr. Jiten Rajkhowa	SMS (Animal Science- Health)	Vety. Anatomy & Histology	12.10.2007	Temporary
3	Subject Matter Specialist	Dr. Binod K. Dutta Borah	SMS (Animal Science- Production)	Vety. Gynecology & Obstructics	12.10.2007	Temporary
4	Subject Matter Specialist	Mr. Debasish Borah	SMS (Agronomy)	Agronomy	08.11.2007	Temporary
5	Subject Matter Specialist	Vacant	SMS (Horticulture)	NA	NA	NA
6	Subject Matter Specialist	Ms. Madhumita Sonowal	SMS (Plant Protection)	Plant Protection	08.11.2007	Temporary
7	Subject Matter Specialist	Dr. Debasis Sasmal	SMS (Fishery Science)	Fishery Science	12.10.2007	Temporary
8	Programme Assistant	Chow Inchen Namchoom	Programme Assistant	Engineering	24.10.2007	Temporary
9	Computer Programmer	Md. Ziaur Rahman	Programme Assistant (Computer)	PGDCA (Computer)	29.10.2007	Temporary
10	Farm Manager	Mr. Azizur Rahman	Farm Manager	P.B.G.	30.11.2007	Temporary
11.	Accountant(on	Sri Noichung Khochilu	Accountant	Graduate	-	Temporary

**Total land with KVK (in ha): 13 ha**

No.	Item	Area (ha)
1.	Under Buildings	NA
2.	Under Demonstration Units	0.05
3.	Under Crops	4.0
4.	Orchard/Agro-forestry	0.80
5.	Others	8.15

**SAC meetings proposed for the year:**

No.	Proposed Date/Month	Expected Participants	Salient Action Points
1.	10 <sup>th</sup> Nov., 2009	25	Members selected
2.	20 <sup>th</sup> May, 2010	25	Members selected

**Details of district (2008-09)****Major farming systems existing in the district\* (based on the study made by the KVK)**

No	Farming systems identified
1.	Agri-Horti-Animal Husbandry
2.	Agri-Horti-Animal Husbandry-Fishery

\* = the programmes proposed by KVK should be matching with the identified farming systems

**Description of Agro-climatic Zone (based on soil and topography)**

No	Agro-climatic Zone	Characteristics
1.	Sub tropical hill zone	The climate of the district varies from place to place. Rainfall varies from 110-3645 mm, temperature 5 to 36°C. The district consists of plain flood prone area, foot and mid hill areas.

**Description of major agro ecological situations (based on soil and topography)**

No	Agro ecological situation	Characteristics
1	AES-I	Soils deep well drain, fine alluvial clay loam, acidic in nature, plain flood prone area, rainfall medium, altitude upto 150 m.
2	AES-II	Soils moderately deep to deep, well drain sandy loam soil, acidic in nature, plain to foot hill area, partly flood prone, rainfall medium to high, altitude upto 150 -200m.
3	AES-III	Moderately deep to deep, well drain black soil, acidic in nature and mid hill area, rainfall high, altitude more than 200 m.

## Details of Operational area / Villages (2009-10)

No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	NA	Chongkham	Chongkham, Momong, Nalung, Napatia, Alubari-Nepali Basti, Namliang, Manmow Tissue, Pangkhao, Marua, Empong.	Paddy, Mustard, Potato, Ginger, Poultry, Cow, Goat, Fishery.	<b>Agriculture :</b> 1. Lack of knowledge about scientific agronomic practices for different crops 2. Poor soil fertility 3. Stem borer, gall midge , Gandhi bug, leaf folder, and leaf roller attack in paddy 4. Poor yield of local varieties of paddy, pulses and oilseed 5. Non adoption of fertility management practices in all crops 6. Attack of stem borer/ top borer in maize 7. Lack of irrigation facility, erratic rainfall 8. Lack of knowledge regarding production and use of organic manures 9. Lack of knowledge about IPM/ INM of different crops 10. Traditional cropping without scientific management practices  <b>Horticulture:</b> 1. Poor performance of local cultivars of fruits and Vegetable 2. Lack of availability of quality planting material in fruits and vegetables 3. Lack of knowledge about propagation technique of banana, citrus, litchi & other fruits 4. Lack of knowledge about scientific orchard management technology of citrus , pineapple 5. Lack of knowledge about scientific nursery raising technique in vegetables 6. Lack of knowledge about nutrient mgt. technique of citrus, litchi, pineapple, and banana. 7. Lack of knowledge about insect-pest & disease mgt. technique of fruits and vegetables 8. Lack of awareness on utilization of underexploited crops.  <b>Fishery</b> 1.Lack of suitable region specific fish farming technology with respect to different altitude of Lohit district 2. Lack of knowledge about different aspects of scientific fish cultur . 3. Lack of knowledge about composite fish cultur . 4. Lack of knowledge about low cost integrated fish farming system . 5. Lack of awareness about scientific fish husbandry	1.Scientific cultivation of cereals, varietal evaluation of rice 2. Nutrient management in cereals 3. Disease management in cereals 4. Biocontrol of rice pests, IPM 5. Waste management 6.Weed Management 7. Fertility management in cereals and oilseed pulses 8. Varietal evaluation of Greengram & Blackickgram 9. Varietal evaluation of pea 10.Cultivation of tuber crops 11. Disease management in potato 12. Orchard management in citrus 13.Scientific Vegetable cultivation 14. Management of young plant orchard in khashi mandarin 15.Rejuvenation of old orchards 16.Disease management in khashi mandarin 17.Exotic vegetable production 18. Off-season vegetable cultivation 19. IPM in cole crops 20.Disease management in cucurbits and ginger 21.Production and management technology of ginger 22. Spices production and management 23.Production and management technology of plantation crop 24. Scientific Cultivation of fruit crops 25. Nursery management in Horticulture crops 26. Proper feeding & housing of livestock 27. Production of Quality animal product 28. Control & prevention of various diseases 29. Scientific management in Poultry 30. Introduction of Broiler farming 31. Small scale Piggery & Goatery farming 32. Carp fry and fingerling rearing 33. Carp breeding and hatchery management 34. Integrated fish farming, Composite fish culture 35. Breeding and culture of ornamental fishes 36. Portable plastic carp hatchery 37. Pen culture of fish and prawn 38.Scientific management of Apiary 39. Installation and maintenance of micro irrigation system 40. Use of Plastics in farming practices 41. Production of small tools and implements 42. Repair and maintenance of farm machinery and implements 43. Small scale processing and value addition
2.	NA	Namsai	Jona Pathar –I, Jona Pathar –II, Jona Pathar –III, Jona Pathar –IV, Deobil, Dachuk	Paddy, Mustard, Potato, Ginger, Poultry, Cow, Goat, Fishery.		
3.	NA	Tezu	Danglat, Loiliang	Paddy, Mustard, Potato, Ginger, Poultry, Cow, Goat, Fishery.		
4.	NA	Sunpura	Paya, Jeko	Paddy, Mustard, Potato, Ginger, Poultry, Cow, Goat, Fishery.		
5.	NA	Lekang	New Mohong, Old Mohong	Paddy, Mustard, Potato, Ginger, Poultry, Cow, Goat, Fishery.		
6.	NA	Piyong	Namong, Nigoro	Paddy, Mustard, Potato, Ginger, Poultry, Cow, Goat, Fishery.		
7.	NA	Mahadevpur	Madevpur-1, mahadevpur-2, Mahadevpur-3, Khamti Kumari, Chelatu	Paddy, Mustard, Potato, Ginger, Poultry, Cow, Goat, Fishery.		
8.	NA	Wakro	Medo, Gundri, Kamlang, Mawai	Orange, Ginger, Paddy, Maize, Mithun, Poultry, Cow, Goat		

					practices. <b>Animal Husbandry :</b> 1. Parasitic infestation of livestock. 2. Poor feeding. 3. Use of local breed of cattle, pig and poultry 4. Lack of knowledge about scientific rearing of livestock. 5. Lack of knowledge in control & prevention of various Disease. 6. Lack of knowledge about integration of different enterprises	
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**Priority thrust areas (prioritized in sync with thrust areas identified and given above)**

Rank	Thrust area
1	Scientific cultivation of cereals, varietal evaluation of rice, INM & IDM in cereals
2	Fertility management in cereals and oilseed and pulses, biofertilizer production
3	Management of young plant orchard, Rejuvenation of old orchards
4	Production and management technology of ginger and Spices
5	Production and management technology of plantation crop
6	Scientific management of feed, Disease and housing in Piggery
7	Scientific feed and disease management in cattle
8	Scientific management in Poultry in terms of feed, housing system, Introduction of Broiler farming, Disease management in poultry
9	Integrated fish farming, Composite fish culture
10	Carp fry and fingerling rearing, Carp breeding and hatchery management, Breeding and culture of ornamental fishes
11	Production of small tools and implements
12	Varietal evaluation of Greengram & Blacklckgram, pea
13	Weed and Waste management
14	Scientific Cultivation of tuber crops, Disease management in potato
15	Orchard management in citrus, Disease management in khashi mandarin
16	Scientific Vegetable cultivation, Exotic and Off-season vegetable cultivation, IPM in cole crops
17	Feed management in cattle, Production of quality animal product
18	Scientific Cultivation of fruit crops, Nursery management in Horticulture crops
19	Portable plastic carp hatchery, Pen culture of fish and prawn
20	Use of Plastics in farming practices
21	Improve housing in goat and cattle, Scientific Goat farming
22	Scientific management of Apiary
23	Introduction of Rabbit farming
24.	Installation and maintenance of micro irrigation system
25.	Repair and maintenance of farm machinery and implements

**PART – II  
(OFT AND FLD)**

**2. Technical activities proposed**

**Abstract of interventions to be undertaken during 2009-10 (Target)**

No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions (if any)					
				Title of OFT	Title of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials
1	Quality fish seed	Fishery	Fish seed	Carp fry fingerling rearing (OFT)		Carp fry fingerling rearing		Field day	Lime, bleaching powder, seed
2	Unutilized water body	Fishery	Source of water		Post monsoon culture of carps	Post monsoon culture of carps		Field day	Do
3	Proper utilisation of resources	Fishery	Unutilized resources		Integrated fish farming	i) Integrated fish farming			Do
4	Carp breeding	Fishery	Quality fish seed			Indian major carp breeding			
5	Composite fish culture	Fishery	Lack of knowledge			Composite fish culture			
6	Ornamental fishes	Fishery	Unutilized resources			Culture of ornamental fishes			
7	Portable plastic carp hatchery	Fishery	Fish breeding			Portable plastic carp hatchery			
8	Pen culture	Fishery	Utilization of resources and lack of knowledge			Pen culture of fishes			
9	Scientific fish culture	Fishery	Lack of knowledge			Improved fishery technology	Improved fishery technology		
10	Biocontrol of pest	Rice	Stemborer and leaf folder	Biocontrol of	-	-	-	-	Trichocard

No	Thrust area	Crop/ Enterprise	Identified Problem affected in rice	Interventions (if any)					
				stemborer and leaf folder and rice					
11	Waste management	Rice	Unutilized rice straw	-	Oyster mushroom production technology	Oyster mushroom production technology	-	Field day	Spawn
12	Disease management	Ginger	Rhizome rot in ginger	Rhizome rot management in ginger using Biofer- PF	Rhizome rot management in ginger using Diethane M-45	Rhizome rot management in ginger using Diethane M-45	-	Field day	Diethane M-45
13	Disease management	Brinjal	Bacterial wilt affected in brinjal	Management of bacterial wilt in brinjal	-	-	-	-	Biofer-PF
14	Dairy management	Cattle buffalo	1) Poor production of milk due to indigenous local breed 2) Improper feeding 3) Poor quality housing system		1) Up gradation of local cattle by artificial insemination with frozen semen straw of improved breed. 2) Feeding of cone feed (balance feeding) to improved milk production.	1) Awareness training programme on few high yielder breeds of cattle. 2) Importance of Balance feeding. 3) Importance of improved housing system. 4) Dairy farming as income source for a family.	1) A.I. in cattle.		Frozen semen straw & A.I. technician few ingredients of cone feeding
15	Poultry Management	Poultry	1) Poor productive local breed of duck, chickens. 2) Improper housing 3) Low input feeding		1) Introduction of improved breed of poultry. 2) Introduction of semi intensive system of poultry rearing. 3) Improved housing system of poultry.	1) Improved housing system of poultry small sense. 2) Broiler farming. 3) Awareness training programme on few improved breed of poultry (Vanaraja, Giriraja, Khaki camble etc.) 4) Layer farm Management.			Improved breed
16	Piggery management	Pig	1) Unhygienic & poor quality housing system. 2) Improper feeding. 3) Nutritional deficiency due to cow quality feeding.	1) Chemical castration. 2) Control of Piglet anaemia by iron supplementation.		1) Hygienic & proper housing system of pig. 2) Importance of weaning at proper time. 3) Introduction of	1) Chemical castration of pig.		Chemical Iron Creep ration

No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions (if any)					
			4) Use of local unproductive breed.	3) Feeding of creep ration during preweaning period.		improved breed of pig for better performance. 4) Scientific small scale pig farming.			
17	Disea management	Livestock & poultry	1) Lack of knowledge regarding schedule time vaccination, deworming etc. 2) Improper housing. 3) Unhygienic condition of Livestock farm shed. 4) Interior place where very difficult to communicate with vety. Dyspensary Doctor etc. 5) Nutritional difficiency.			1) How to control & prevent various Disease of Livestock. 2) How to control & prevent various diseases of poultry. 3) Importance of schedule time vaccination against various Disease & regular deworing. 4) Maintenance of proper hygienic condition of farm shed. 5) Prevention of nutritional difficiency disease of Livestock.		Health camp	
18	Feed management	Livestock	1) Lack of knowledged regarding balance feeding.	10 improved quality fodder production (Napier, Geiny etc.)	1) Concentrate feeding of pig.	1) Importance of balance feeding & proper watering of Livestock. 2) Preparation of animal feed from agricultural product & Bi products.		Cone feed Improved fodder seed.	
19	Production of quality animal products.		1) Lack of knowledge. 2) Lack of Chenalized Market. 3) Interior place.			i) Production of quality animal products. ii) Maintenance of proper cleanness & hygienic condition of animal products.			
20	Sheep & goat farming		1) Improper housing. 2) Local unproductive Breed . 3) Improper management.		1) Scientific goat housing system.	1) Goat farming as economic source of rural family.			
21	Weed Management	Rice	Heavy weed infestation	-	-	1.Integrated weed management	-	-	Neocitina beetle

No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions (if any)					
						practices of rice			
22	Nutrient management	Rice	1.Low fertility of soil 2. Unutilized paddy straw.	Integrated nutrient management in rice	-	1. Use of HYV and INM in Kharif rice 2. Vermicompost production technology	INM in cereal crops	Field day	Biofertilizer
23	Water management	Rice (Direct seeded)  Rice (Kharif Transplanted)	1. Low and erratic rainfall, rainfed cultivation 2. Seedling mortality under submergence	-	2.Sali rice cultivation in flash flood situation	1. Water management in direct seeded rice		Field day	Seed
24	Integrated crop management	Rice (Kharif)	Low yield of local variety	Cultivation of HYV of direct seeded rice	Demonstration of Rice Variety "Ranjit"	-	-	Field day	Seed
25	Feed management	Cattle	Irregular supply of feed,	-	Demonstration of perennial forage grass	Scientific cultivation practices of forage grass setaria	-	Field day	Setaria slips
26	Fertility management	Mustard	Low fertility of soil	Integrated nutrient management in mustard	Demonstration of HYV of Rapeseed and Mustard	Use of HYV and biofertilizer management in rapeseed and mustard	-	Field day	Seed, biofertilizer
27	Varietal evaluation of Blackgram	Blackgram	Low production of local cultivar	-	Demonstration of HYV of Blackgram	-	-	Field day	Seed
28	Nutrient management	Potato	Low fertility of soil	-	-	Use of HYV and fertilizer management in potato	-	-	Biofertilizer
29	Integrated crop management	Maize	Low productivity due to traditional cultivation practices	-	-	Scientific cultivation practices of maize	-	-	Seed (HYV)

**Details of On Farm Trials be undertaken during 2009-10 (Target)**

Crop/enterprise	Farming situation	Problem Diagnosed	Title of OFT	Assessment/Refinement (WRITE A / R)	No. of trials*
1	2	3	4	5	6
Rice	Rainfed	Low production of local variety	Cultivation of HYV of direct seeded rice in Lohit District	A	15
Rice	Rainfed	Low fertility of soil	Integrated nutrient management in rice (2 <sup>nd</sup> year)	A	15
Mustard	Rainfed	Poor yield due to low fertility of soil	Integrated nutrient management in mustard	A	15
Fishery	Modified extensive	Poor quality fish seed	Carp fry fingerling rearing	A	3
Rice	Rainfed	Stemborer and leaf folder affected in rice	Biocontrol of stemborer and leaf folder in rice	A	15
Ginger	Rainfed	Rhizome rot in ginger	Rhizome rot management in ginger using Biofer – PF	A	15
Brinjal	Rainfed	Bacterial wilt affected in brinjal	Management of bacterial wilt in brinjal	A	15
Piggery farming	Semi intensive	Mortality before weaning poor growth rate	Control of Piglet anemia by iron supplementation via 1/m injection(Continuation from 2008)	A	15
Piggery farming	Semi intensive	Long interfarrowing duration, Anestrous poor growth	Supplementation of mineral mixture(Continuation from 2008)	A	15
Piggery farming	Semi intensive	Infection in open castration method, unhygienic condition	Chemical castration in pig(Continuation from 2008)	A	30
Poultry farming	Traditional farming system	Low production, poor growth rate, mortality	Semi intensive Poultry farming(Continuation from 2008)	A	15

\* No. of farmers

Technology assessed/refined	Year of release of technology	Whether the technology is latest one available? (Y/N)*	If NO, then reason for using the old technology for OFT (in detail)	Parameters of assessment
6				7
Assessed	Under pipeline	Y	-	Yield and Yield attributes
Assessed	Under pipeline	Y	-	Yield and Yield attributes
Assessed	Under pipeline	Y	-	Yield and Yield attributes
Assessed	2002	N	In Lohit previously no such activity has been taken up. So to provide good quality seed, this technology has been taken up.	Temp rainfall, 7 pt. fish growth, total production.
Assessed	2003	Y	-	Percentage damage area, yield
Assessed	2004	Y	-	No. of infected plant, yield record, farmer reaction.
Assessed	Under pipeline	y	-	No. of infected plant, yield record, farmer reaction
Assessed	2008	Y	-	Milk yield
Assessed	2008	Y	-	Growth rate, body wt. gain
Assessed	2008	Y	-	Overall performance
Assessed	2008	Y	-	Growth rate before preweaning

• = The technology should be less than 5 years old.

### Frontline Demonstrations

#### Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2008-09 and recommended for large scale adoption in the district

No	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
				No. of villages	No. of farmers	Area in ha
1	Water resources	Fish fry	Post monsoon culture of culture of carps	3	3	0.5
2	Lack of knowledge	Fish farming	integrated fish farming.	3	3	0.5
3	Crop production	Demonstration of HYV of rapeseed and mustard	Training, input supply	4	10	5.0

\* Thematic areas as given in Table on Training

Details of FLDs to be implemented during 2009-10 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

#### A. Cereal Crops

No.	Crop	Thematic area	Technology Demonstrated	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for FLD in the district?	Area (ha)	No. of farmers/demonstration		
							Proposed	SC/ST	Others	Total
1.	Rice	Integrated crop management	Demonstration of HYV of Rice (Var.-Ranjit)	Kharif, 2010	Y	NA	2.0 ha	20	10	30
2.	Rice	Water management	Sali rice cultivation in flash flood situation	Kharif, 2010	N	Similar situation with UBV zone of Assam	1.0 ha	15	-	15
3.	Setaria grass	Fodder management	Demonstration of perennial forage grass	Perennial (2009-2010)	N	Similar situation with UBV zone of Assam	0.20 ha	15	-	15

#### B. Oilseed crops

No.	Crop	Thematic area	Technology Demonstrated	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for FLD in the district?	Area (ha)	No. of farmers/demonstration		
							Proposed	SC/ST	Others	Total
1.	Rapeseed & Mustard	Integrated crop management	Demonstration of HYV	Rabi, 2009	Y	NA	3 ha	20	10	30

**C. Pulse Crops**

No.	Crop	Thematic area	Technology Demonstrated	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for FLD in the district?	Area (ha)		No. of farmers/demonstration		
							Proposed		SC/ST	Others	Total
1.	Black gram	Integrated crop management	Demonstration of HYV	Kharif, 2009	N	Similar situation with UBV zone of Assam	2 ha		20	10	30

**D. Horticultural Crops**

No.	Crop	Thematic area	Technology Demonstrated	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for FLD in the district?	Area (ha)		No. of farmers/demonstration		
							Proposed		SC/ST	Others	Total
1	Ginger	Disease management	Rhizome rot management in ginger using Diethane M-45	Kharif, 2010	Y	-	2		15	-	15

**Extension and Training activities proposed under FLD**

No.	Activity	No. of activities	Tentative Date	Number of participants	D.1
A.1	Training, Field day	2	10.03.2010 & 20.10.10	30,30	-
A.2	Training, Field day	2	08.07.10 & 08.08.10	15,25	-
A.3	Training, Field day	1	07.04.10	25	-
B.1	Training, Field day	2	10.10.09 & 05.02.10	30,30	-
C.1	Training, Field day	2	01.01.09 & 20.11.09	30,30	-
D.1	Training, Field day	1	10.02.10	30	-

## (i) Farm Implements:

No.	Crop	Thematic area	Name of the implement	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for the district?	Area (ha)		No. of farmers/demonstration		
							Proposed		SC/ST	Others	Total

## (ii) Livestock Enterprises:

Enterprises	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Dairy	Local & Cross breed	7	7	Milk yield	Daily milk yield	Daily milk yield	20-25%	-
Piggery	Local & Cross breed	9	35	Growth rate, body wt. gain	Monthly body weight gain	Monthly body weight gain	10-15%	-
Goat	Assam hill Goat	2	16	Overall performance	-	-	-	-
Piggery	Cross breed Piglets	10	50	Growth rate before preweaning	Growth rate weekly	Growth rate weekly	15-20%	-

\* Milk production, meat production, egg production, reduction in disease incidence etc.

## (iii) Other Enterprises:

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom	Oyster mushroom	15	15	No. of flushes, yield	-	-	-	-
Apiary	NA							
Sericulture	NA							
Vermi-compost	NA							

















Small scale processing	1	2	5	7	-	-	-	15	8	23	30
Post Harvest Technology											
Tailoring and Stitching											
Rural Crafts											
<b>TOTAL</b>											
<b>(C) Extension Personnel</b>											
Productivity enhancement in field crops											
Integrated Pest Management											
Integrated Nutrient management											
Rejuvenation of old orchards											
Protected cultivation technology											
Formation and Management of SHGs											
Group Dynamics and farmers organizations											
Information networking among farmers											
Capacity building for ICT application											
Care and maintenance of farm machinery and implements											
WTO and IPR issues											
Management in farm animals											
Livestock feed and fodder production											
Household food security											
Women and Child care											
Low cost and nutrient efficient diet designing											
Production and use of organic inputs											
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
<b>TOTAL</b>											

Consolidated table (On + Off + Sponsored + Vocational)

Thematic area	Courses (No)	No. of participants									Grand Total
		Others			SC			ST			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>											
<b>I Crop Production</b>											
Weed Management	2	-	-	-	-	-	-	40	20	60	60
Nutrient Management	2	2	1	3	2	1	3	34	20	54	60
Resource Conservation Technologies											
Cropping Systems											
Crop Diversification											
Integrated Farming systems											
Water management	1	4	1	5	4	1	5	15	5	20	30
Seed production											
Nursery management											
Integrated Crop Management	3	-	-	-	-	-	-	60	30	90	90
Fodder production	1	20	10	30							30









**Vocational training programmes for Rural Youth :**

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants		
				Male	Female	Total
Fishery Sc.	Lack of knowledge	Composite fish culture	1	15	10	25
Fishery Sc.	Integrated farming	Integrated fish farming	1	15	10	25
Vermiculture	Vermiculture	Vermicompost production technology & its use in crop production	4	40	20	60
Rice	Waste management	Oyster mushroom production technology	1	15	15	30
Honey bee	Apiary	Apiary	1	20	10	30
Pig	Piggery farming	Scientific pig farming	2	15	15	30
Cow	Dairy Management	Cow	2	10	15	25
Vegetables crops	Lack of knowledge	Protected cultivation of vegetable crops	1	20	10	30
Small scale processing	Lack of knowledge	Small scale processing(on)	1	13	17	30
Small scale processing	Lack of knowledge	Small scale processing(off)	1	17	13	30

\*training title should specify the major technology /skill transferred



**PART – IV**  
**(EXTENSION ACTIVITIES AND PRODUCTION OF SEED AND PLANTING MATERIALS)**

**4. Proposed Extension Activities for the year 2008-09 (including activities under FLD programmes)**

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Rural Youth			Total		
		M	F	T	M	F	T	M	F	T	M	F	T
Field Day	12										-	-	300
Kisan Mela	NA												
Kisan Gosthi	NA												
Exhibition	2										-	-	200
Film Show	5										-	-	150
Method Demonstrations	NA												
Farmers Seminar	NA												
Workshop	NA												
Group meetings	5										-	-	125
Lectures delivered as resource persons	25										-	-	750
Newspaper coverage	5										-	-	Mass
Radio talks	2										-	-	Mass
TV talks	2										-	-	Mass
Popular articles	5										-	-	Mass
Extension Literature	10										-	-	Mass
Advisory Services	1000 farmers										-	-	1000
Scientific visit to farmers field	50										-	-	50
Farmers visit to KVK	200										-	-	200
Diagnostic visits	10										-	-	40
Exposure visits	05										-	-	125
Ex-trainees Sammelan	NA												
Soil health Camp	NA												
Animal Health Camp	3										-	-	100
Agri mobile clinic	NA												
Soil test campaigns	NA												
Farm Science Club Conveners meet	NA												
Self Help Group Conveners meetings	NA												
Mahila Mandals Conveners meetings	NA												
Celebration of important days (specify)	Republic, Independent day										-	-	Mass
Any Other (Specify)	NA												
<b>Total</b>													
<b>M=Male</b>	<b>F=Female</b>	<b>T=Total</b>											

**Proposed production and supply of Technological products  
Seed materials:**

Sl. No.	Crop	Variety	Proposed Quantity (qtl.)	Value (Rs.)	To be provided to (No. of Farmers)
<b>Cereals</b>	Maize	HQPM Lines	8-8.5 qt.	16,000	100
	Rice	Ranjit	20 qt.	20,000	100
<b>Oilseeds</b>	Mustard	TS-36	7 qt.	21,000	100
<b>Pulses</b>	Pea	Arka	3 qt.	5,000	20
<b>Vegetables</b>	Chilli	Arka	Arka Lohit	1,000	20
	Tomato	Rupali	0.05	2,000	20
<b>Flower Crops</b>	Marigold	PNG	0.01	1,00	15
	Anthurium	Mick, Mouse	0.01	1,000	15
<b>Others (Specify)</b>					

**Planting materials :**

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	To be provided to (No. of Farmers)
<b>Fruits</b>					
<b>Spices</b>	Termini	Megha	5 qt.	2,500	10
<b>Vegetables</b>	Cauliflower	Pusa Hybrid 2	20,000 nos.	2,500	35
	Cabbage	Pusa drumhed	20,000 nos.	2,500	35
<b>Forest Species</b>					
<b>Ornamental Crops</b>	T. Rose	NA	100 nos.	2,000	20
<b>Plantation Crops</b>					
<b>Others (specify)</b>	Lemon grass		2000 nos.	500	10
<b>Medicinal &amp; Aromatic plants foreq grace</b>	Satarie	OD-M& OD-58	1000 nos.	1,000	10

**Bioproducts :**

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	To be provided to (No. of Farmers)
			No	(kg)		
<b>Bioagents</b>	NA					
<b>Biofertilizers</b>						
1 Vermicompost	Vermicompost	E. foetida	500 no.	52	6000.00	50
<b>Bio Pesticides</b>	NA					

**Livestock :**

SI. No.	Type	Breed	Quantity		Value (Rs.)	To be provided to (No. of Farmers)
			Nos	Kgs		
<b>Cattle</b>						
<b>Sheep and Goat</b>						
<b>Poultry</b>	Brolier	Vencob 400		20,000	1,60,000	Mass
<b>Fisheries</b> i)	Fry & Fingerling	Indian major carp	1,00,000 no.	-	25,000.00	20
ii)	Fish production	Do	100-150 kg.	-	7,000-10,000.00	50-100
<b>Others (Specify)</b>						

**Literature proposed to be developed/ published**

Item	Title	Number
Research papers	To be determined in time	5
Technical reports	Monthly, Quaterly, Halfyearly, Action plan, Annual plan etc	20
News letters	NA	NA
Technical bulletins	To be determined in time	5
Popular articles	To be determined in time	5
Extension literature	To be determined in time	15
Others (Pl. specify)	NA	
<b>Total</b>		<b>50</b>

**Details of Electronic Media proposed**

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Proposed title of the programme	Number
NA	NA	NA	NA

**Field activities proposed**

- i. Number of villages to be adopted :34
- ii. No. of farm families to be selected :900
- iii. No. of surveys/PRA to be conducted :14

**Proposed activities of Soil and Water Testing Laboratory:****Status of establishment of Lab :**

- 1. Year of establishment : Not yet established
- 2. Details of samples to be analyzed : NA

Details	No. of Samples	No. of Farmers	No. of Villages
Soil Samples	NA		
Water Samples	NA		
Total	NA		

PART – V  
(LINKAGES WITH OUTSIDE ORGANISATIONS)

**5. Proposed Linkages**

**Functional linkage with different organizations**

Name of organization	Nature of linkage
1. Assam Agriculture University, Jorhat	For technology, inputs
2. College of Veterinary Science, Khanapara, AAU	For technology, conducting training
3. ICAR, Research complex for NEH region, Borapani	For technology, inputs
4. Citrus Research Station AAU, Tinsukia	For technology, conducting training, input
5. RARS, Titabor, AAU	For technology, inputs
6. RARS, Shilongani, AAU	For technology, inputs
7. HRS, Khakhikushi	For technology, inputs
8. IARI, Pusa	For technology, inputs
9. ATMA, Lohit District	Joint implementation , conducting training
10. Department of Agriculture, Lohit District	Survey, conducting training
11. Department of Horticulture, Lohit District	Survey, conducting training
12. Department of Fishery, Lohit District	Input, Survey
13. Department of Veterinary, Lohit District	Survey, conducting training, joint implementation
14. Department of Water resources, Lohit District	Survey

Note: The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, and participation in meeting, contribution for infrastructural development, conducting training programmes and demonstration or any other

List special programmes to be undertaken by the KVK, financed by State Govt./Other Agencies (if any)

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
NA	NA	NA	NA

Details of proposed linkage with ATMA

a) Is ATMA implemented in your district (Yes/No):Yes

S. No.	Programme	Nature of linkage proposed
1	Training	Conducting training jointly/sponsored
2	FLD	Joint Diagnosis

Give details of programmes implemented under National Horticultural Mission (if any) : NA

S. No.	Programme	Nature of linkage proposed
NA	NA	NA
NA	NA	NA

Nature of linkage with National Fisheries Development Board (if any): NA

S. No.	Programme	Nature of linkage proposed
NA	NA	NA

**PART – VI**  
**(PERFORMANCE OF INFRASTRUCTURE)**

**6. Performance of infrastructure in KVK**

**Proposed utilization of demonstration units (other than instructional farm) :**

No.	Demo Unit	Year of estt.	Area	Proposed production			Amount (Rs.)	
				Variety	Produce	Qty.	Cost of inputs	Gross income expected
Fishery	Nursery pond	2008	0.003	IMC	Fry & fingerling	1,00,00 no.	10,000/-	25,000/-
Livestock								

**Proposed utilization of instructional farm (Crops) including seed production:**

Name Of the crop	Expected Date of sowing	Expected Date of harvest	Area (ha)	Proposed production			Amount (Rs.)	
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income expected
Cereals								
Maize	1 <sup>st</sup> oct, 09	25 <sup>th</sup> Jan, 10	0.5	HQPM lines	Seed	8-8.5 qt.	6,000	16,000
Rice	15 <sup>th</sup> July, 10	15 <sup>th</sup> Nov, 10	0.3	Ranjit	Seed	20 qt.	7,000	20,000
Pulses								
Pea	20 <sup>th</sup> Nov, 09	20 <sup>th</sup> Mar, 10	0.13	Arka	Seed	2 qt.	2,000	6,000
Oilseeds								
Rapeseed	10 <sup>th</sup> oct, 09	20 <sup>th</sup> Dec, 10	1	TS-36	Seed	7 qt.	7,000	20,000
Fibers								
Spices								
Turmeric	15 <sup>th</sup> Apr, 10	15 <sup>th</sup> Jan, 11	0.1	Megha	Rhizome	20 qt.	2,000	5,000
Plantation crops								
Floriculture								
Marigold	1 <sup>st</sup> oct, 09	20 <sup>th</sup> Dec, 09		PNG	Seedlings	250 nos.	250	1,000
Anthurium	1 <sup>st</sup> oct, 09	25 <sup>th</sup> Dec, 09		M. Mouse	Do	250 nos.	250	1,000
Fruits								
Vegetables								
Chilli	1 <sup>st</sup> oct, 09	25 <sup>th</sup> Jan, 10		Aronit	Seed	500 gm.	250	1,500
Tomato	1 <sup>st</sup> Nov, 09	25 <sup>th</sup> Jan 10		Rupali	Seed	500 gm.	250	1,500
Others (Specify)	Fishery May, 2010	July -2010	0.003	Indian major carp	i) Fish fry ii) Table fish	1,00,000 no 100-15 kg	15,00	35,000.00

**Proposed production Units (bio-agents / bio pesticides/ bio fertilizers etc.) :**

No.	Name of the Product	Qty	Amount (Rs.)	
			Cost of inputs	Gross income expected
1	Vermicompost	5q	2,500	5,000

**Performance of instructional farm (livestock and fisheries production) :**

No	Name of the animal / bird / aquatics	Details of expected production		
		Breed	Type of Produce	Qty expected
1	Fish Spawn	Indian major carp	Fry, fingerling, table fish	1,00,000 no & table fish 100-150 kg.

**PART – VII  
(SUMMARY)**

**7. Summary**

**Targets for 2009-10 for KVK.**

**On Farm Trials**

<b>Thematic areas</b>	<b>Cereals</b>	<b>Pulses</b>	<b>Vegetables</b>	<b>Fruits</b>	<b>Others</b>	<b>Total</b>
Varietal Evaluation	1					1
Integrated Nutrient Management	1				1	2
Biocontrol of pest and diseases	1					
Disease management	1				1	2
Piggery management					3	3
Poultry management					1	1
Quality fish and seed					1	1
					1	1
<b>Grand total</b>	<b>4</b>				<b>8</b>	<b>11</b>

**FLDs on oilseed and pulse crops.**

<b>Name of KVK</b>	<b>Oilseeds</b>		<b>Pulses</b>	
	<b>Area (ha)</b>	<b>No. of farmers</b>	<b>Area (ha)</b>	<b>No. of farmers</b>
	3	30	2.0	30
Lohit District, Arunachal Pradesh				
<b>Total</b>				

**Training programmes**

Area	Farmers/ farm women		Rural youth		Extension personnel	
	Courses	Participants	Courses	Participants	Courses	Participants
Crop Production	9	270	2	60	1	20
Horticulture	8	195	1	30		
Plant Protection	9	270			1	20
Home Science						
Animal Science	17	480	4	120	1	30
Soil Science						
Agril Engineering	8	198	2	60	-	-
Bee Keeping			1	30	-	-
Mushroom Cultivation			1	30	-	-
Agro forestry						
Others i) Fishery	6	150	2	50	1	20
ii) Agri.Extension						
<b>Total</b>	<b>57</b>	<b>1563</b>	<b>13</b>	<b>380</b>	<b>4</b>	<b>90</b>

**Extension Activities**

Activity	Nos
Field days	12
Kisan Mela	NA
Exhibition	2
Exposure visit	5
Extension literature	10
Scientist farmers' interaction	50
Ex-trainees meet	NA
Advisory services	1000 farmers
Newspaper coverage	5
TV show	2
Radio talk	2
Others (Kisan Gosthi)	NA
<b>Total</b>	

**Seed Production:**

KVK	Quantity (qtl)			
	Cereals	Oilseeds	Pulses	Vegetables
Lohit District, Arunachal Pradesh	28.0	7.0	2	0.01
<b>Total</b>				

**Planting Materials :**

KVK	Quantity (nos)			
	Fruits	Vegetable Seedlings	Tree Species	Ornamental Plants
Lohit District, Arunachal Pradesh	-	-	-	500
<b>Total</b>				

Signature,

Programme coordinator,  
KVK, Lohit District,  
Momong – 792 104,  
Arunachal Pradesh