ANNUAL ACTION PLAN: April 2011-2012

KVK, Phek, Nagaland

PART – I
(GENERAL INFORMATION)

1. General information about the KVK

Name and address of KVK with Phone, Fax and E-mail*

Complete postal address with Pin Code	Telephone	Fax	E mail
Krishi Vigyan Kendra (NRCM), Village- Porba, P.O-Pfutsero, District-Phek,Nagaland-797107	03865-281436	03865-281436	kvkphek@gmail.com www.kvkphek.nic.in

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

Complete postal address with Pin Code	Telephone	Fax	E mail
NRC on Mithun, Jharnapani, Medziphema, Nagaland	03862-247341	03862-247341	nrcmithun@mailcity.com www.nrcmithun.res.in

Name of the Programme Coordinator with Landline & Mobile No*

Name of PC	Contacts		
	Residence	Mobile	E mail
Dr. R. K. Singh	NRCM Colony , Porba, Pfutsero - Phek	09436606353	rksingh3@gmail.com

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

Year of sanction of KVK: 2003

Scientific Staff Position* (As on April 2011)

No.	Sanctioned posts	Name of the incumbent	Designation	Discipline	Date of joining	Permanent /Temporary
1	Programme Coordinator	Dr. R.K.Singh	Programme Coordinator	Animal Science	7.12.2008	Permanent
2	Subject Matter Specialist	Mr.Rinku Bharali	SMS	Horticulture	17.8.2006	Permanent
3	Subject Matter Specialist	Miss T.Esther Longkumer	SMS	Soil Science	01-08-06	Permanent
4	Subject Matter Specialist	Miss Hannah K. Asangla	SMS	Agronomy	01-08-06	Permanent
5	Subject Matter Specialist	Er. Chitrasen Lairenjam	SMS	Agril Engg.	10-08-06	Permanent
6	Subject Matter Specialist	Debojyoti Borkotoky	SMS	Animal Science	01-11-2010	Permanent
7	Subject Matter Specialist	Liza Barua Bharali	SMS	Plant Protection	23-11-2009	Permanent
8	Programme Assistant	Mrs. Virginia Thabah	Programme Asst.	Home Science	21-08-06	Permanent
9	Computer Programmer	Er. Nukusa T. Vadeo	Computer Programmer	Computer Engg.	1.8.2006	Permanent
10	Farm Manager	Keniseto Chucha	Farm Manager	Horticulture	10.11.09	Permanent

**** = The scientific staff position should reflect in the quantity and quality of all programmes proposed by KVK in the action plan***

Total land with KVK (in ha):

No.	Item	Area (ha)
1	Under Buildings	0.06
2.	Under Demonstration Units	Nil
3.	Under Crops	0.2
4.	Orchard/Agro-forestry	1.8
5.	Others	14.94

SAC meetings proposed for the year

No.	Proposed Date/Month	Expected Participants	Salient Action Points
1.	April 2011	25	Popularization of high yielding variety of Maize Introduction of HYV of potato Introduction of HYV of vegetables Popularization of improved bee rearing technology Popularization of Protected cultivation technology for offseason vegetable production Popularization of Turkey Popularization of trichocards for stem borer management in paddy Disease and feeding management of livestock Post harvest management of of vegetables and fruits Integrated pest and disease management
2.	November 2011	25	Popularization of rapseed Popularization of field pea Demonstration on integrated farming system Demonstration on drip irrigation during winter Training cum demonstration on water conservation technologies Integrated pest and disease management Integrated Nutrient Management Disease and feeding management of livestock Post harvest management of of vegetables and fruits

Details of district

Major farming systems existing in the district* (based on the study made by the KVK)

No	Farming systems identified
1.	Jhum
2.	Pani kheti
3.	Zabo system
4.	Agrisilvipastoral system
5.	Alder based cropping system

**** = 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 temperate I Hill Zone (1000-1500m MSL)	High hills to medium hills with steep slope and undulating topography. Soils are rich in organic matter and ranges from sandy loam to clay loam
2.	Sub Alpine temperate zone (1500-3500m MSL)	High hills with steep terrains and deep gorges. Soils ranges are clay to clay loam
3.	Mild temperate Hill zone (200-800m MSL)	Mid hills to low hills with gentle slopes. Soils ranges from sandy loam to clay

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

No	Agro ecological situation	Characteristics
1	AES-I (500-1000 meters msl)	Foot hills with gentle slope having terraces suitable for paddy cultivation. Soil is basically clay loam to clay
2.	AES-II (1000-1500 meters msl)	Moderate hills with gentle slope have been observed. Soil is loamy in nature.
3.	AES-III (above1500 meters msl)	Topography is high hills with moderate to steep slopes. Soil is dominantly Sandy loam to clay loam

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	Pfutsero	Pfutsero	Porba	Paddy	Poor yield of local variety.	Introduction of high yielding varieties of paddy suitable for panikheti.
					Degrading soil fertility	Introduction of biofertilizers e.g.Rhizobium, Azotobacter, Azospirillum, Blue green algae, Azolla for nutrient management
					Stem borer infestation	Use of suitable plant protection measures
					More time and labour consumption in weeding and thrashing of paddy	Introduction of improved paddy weeders and thrashers.
					Poor viability of seeds and loss due to improper storage	Introduction of improved storage structure for cereals.
					Soil erosion, loss of fertility and degradation	Proper design of terrace, water harvesting, diversion, developing irrigation and drainage system for proper management of watershed area.
				Maize	Poor yield and low quality of local variety	Introduction of high yielding/hybride varieties
					Improper plant spacing with higher seed rate	Proper plant geometry and seed rate
					Drudgery in shelling of maize	Use of maize shellers
				Potato	Low yield	Use of high yielding varieties and adoption of Integrated nutrient management to maintain the fertility status of soil.
					Non avialibility of quality planting material	Introduction of TPS technology
					Cut worm, Red ants	Use of suitable plant protection measures
				Banana	Cultivation of wild type low quality banana cultivars.	Introduction of high quality of banana cultivar such as Grand naine
					Improper training of plants.	
				Passion fruit	Improper planting, training and pruning	Improved production technology of passion fruit.
					Insect pest and disease infestation.	Use of suitable plant protection measures
					Post harvest losses of fruits and vegetables	Development capabilities of rural youth and women in the field of fruits and vegetables processing and value addition.
				Pear, Peach & plum	Heavy weed infestation in the orchards	Control of weeds
					Low yield and quality of pear peach and plum.	Use of high yielding varieties with improved production technology.
				Cabbage	Improper nursery raising technique	Proper nursery raising techniques.
					Insect and pest infestation.	Use of bio-control agents
					Mix cultivation resulting in hindrance for intercultural operations.	Developing proper intercropping pattern
				Ginger	Rotting in field and as well as during storage	Soil and Seed treatment
						Proper storage of finished products
				Poultry	Low production performance of existing birds	Introduction of quality poultry germplasm.
					No provision of night shelter and unhygienic dwellings	Adequate and hygienic shelter/housing
					Improper feeding	Supplementary feeding for better growth and performance
					High epidemics of RD	Vaccination

				Piggery	Low production performance of local breeds Non-availability of piglets in the locality Tendency of the farmers to produce pork on zero to negligible inputs	Introduction of quality pig germplasm. Developing breeding unit of high performing breeds Creating awareness regarding performance and management of better germplasm
				Mithun	High incidence of disease occurrence like FMD Compensation of mineral deficiency in high hill fodders by providing common salt only Parasitic infestation in young calves	Vaccination and health coverage measures. Feeding of Compounded mineral mixture instead of common salt only Deworming on regular intervals
				Cattle	Poor milk production of local breed, Thotho Epidemics of FMD Parasitic infestation in young calves	Breed improvement through selection and cross breeding Vaccination Deworming on regular intervals
				Fishery	Skin disease in local breed Poor production of local fish	Liming in fish pond Introduction of quality fish breed
2	Pfutsero	Pfutsero	Sakaraba	Paddy	Poor yield of local variety. Degrading soil fertility Stem borer infestation More time and labour consumption in weeding and thrashing of paddy Poor viability of seeds and loss due to improper storage Soil erosion, loss of fertility and degradation	Introduction of high yielding varieties of paddy suitable for panikheti. Introduction of biofertilizers e.g.Rhizobium, Azotobacter, Azospirillum, Blue green algae, Azolla for nutrient management Use of suitable plant protection measures Introduction of improved paddy weeders and thrashers. Introduction of improved storage structure for cereals. Proper design of terrace, water harvesting, diversion, developing irrigation and drainage system for proper management of watershed area.
				Maize	Poor yield and low quality of local variety Improper plant spacing with higher seed rate Drudgery in shelling of maize	Introduction of high yielding/hybride varieties Proper plant geometry and seed rate Use of maize shellers
				Potato	Low yield Non avialibility of quality planting material Cut worm, Red ants	Use of high yielding varieties and adoption of Integrated nutrient management to maintain the fertility status of soil. Introduction of TPS technology Use of suitable plant protection measures
				Banana	Cultivation of wild type low quality banana cultivars. Improper training of plants.	Introduction of high quality of banana cultivar such as Grand naine
				Passion fruit	Improper planting, training and pruning Insect pest and disease infestation. Post harvest losses of fruits and vegetables	Improved production technology of passion fruit. Use of suitable plant protection measures Development capabilities of rural youth and women in the field of fruits and vegetables processing and value addition.
				Pear, Peach & plum	Heavy weed infestation in the orchards Low yield and quality of pear peach and plum.	Control of weeds Use of high yielding varieties with improved production

						technology.
				Cabbage	Improper nursery raising technique Insect and pest infestation. Mix cultivation resulting in hindrance for intercultural operations.	Proper nursery raising techniques. Use of bio-control agents Developing proper intercropping pattern
				Ginger	Rotting in field and as well as during storage	Soil and Seed treatment Proper storage of finished products
				Large cardamom	High incidence of disease occurrence resulting in dyeing of plants	Use of resistant varieties
					High energy requirement in drying	Proper designing of driers
				Poultry	Low production performance of existing birds No provision of night shelter and unhygienic dwellings Improper feeding	Introduction of quality poultry germplasm. Adequate and hygienic shelter/housing Supplementary feeding for better growth and performance
					High epidemics of RD	Vaccination
				Piggery	Low production performance of local breeds Non-availability of piglets in the locality Tendency of the farmers to produce pork on zero to negligible inputs	Introduction of quality pig germplasm. Developing breeding unit of high performing breeds Creating awareness regarding performance and management of better germplasm
				Cattle	Poor milk production of local breed, Thotho	Breed improvement through selection and cross breeding
					Epidemics of FMD Parasitic infestation in young calves	Vaccination Deworming on regular intervals
3	Pfutsero	Pfutsero	Gidemi	Paddy	Poor yield of local variety.	Introduction of high yielding varieties of paddy suitable for panikheti.
					Degrading soil fertility	Introduction of biofertilizers e.g.Rhizobium, Azotobacter, Azospirillum, Blue green algae, Azolla for nutrient management
					Stem borer infestation	Use of suitable plant protection measures
					More time and labour consumption in weeding and thrashing of paddy	Introduction of improved paddy weeders and thrashers.
					Poor viability of seeds and loss due to improper storage	Introduction of improved storage structure for cereals.
					Soil erosion, loss of fertility and degradation	Proper design of terrace, water harvesting, diversion, developing irrigation and drainage system for proper management of watershed area.
				Maize	Poor yield and low quality of local variety	Introduction of high yielding/hybride varieties
					Improper plant spacing with higher seed rate	Proper plant geometry and seed rate
					Drudgery in shelling of maize	Use of maize shellers
				Potato	Low yield	Use of high yielding varieties and adoption of Integrated nutrient management to maintain the fertility status of soil.
					Non avialibility of quality planting material	Introduction of TPS technology
					Cut worm, Red ants	Use of suitable plant protection measures

				Banana	Cultivation of wild type low quality banana cultivars. Improper training of plants.	Introduction of high quality of banana cultivar such as Grand naine
				Passion fruit	Improper planting, training and pruning Insect pest and disease infestation. Post harvest losses of fruits and vegetables	Improved production technology of passion fruit. Use of suitable plant protection measures Development capabilities of rural youth and women in the field of fruits and vegetables processing and value addition.
				Mandarin	Improper spacing Insect pest and disease management	Proper plant geometry Integrated pest and disease management
				Pear, Peach & plum	Heavy weed infestation in the orchards Low yield and quality of pear peach and plum.	Control of weeds Use of high yielding varieties with improved production technology.
				Ginger	Rotting in field and as well as during storage	Soil and Seed treatment Proper storage of finished products
				Poultry	Low production performance of existing birds No provision of night shelter and unhygienic dwellings Improper feeding High epidemics of RD	Introduction of quality poultry germplasm. Adequate and hygienic shelter/housing Supplementary feeding for better growth and performance Vaccination
				Piggery	Low production performance of local breeds Non-availability of piglets in the locality Tendency of the farmers to produce pork on zero to negligible inputs	Introduction of quality pig germplasm. Developing breeding unit of high performing breeds Creating awareness regarding performance and management of better germplasm
				Cattle	Poor milk production of local breed, Thotho Epidemics of FMD Parasitic infestation in young calves	Breed improvement through selection and cross breeding Vaccination Deworming on regular intervals
4	Pfutsero	Pfutsero	Pfutseromi	Paddy	Poor yield of local variety. Degrading soil fertility Stem borer infestation More time and labour consumption in weeding and thrashing of paddy Poor viability of seeds and loss due to improper storage Soil erosion, loss of fertility and degradation	Introduction of high yielding varieties of paddy suitable for panikheti. Introduction of biofertilizers e.g.Rhizobium, Azotobacter, Azospirillum, Blue green algae, Azolla for nutrient management Use of suitable plant protection measures Introduction of improved paddy weeders and thrashers. Introduction of improved storage structure for cereals. Proper design of terrace, water harvesting, diversion, developing irrigation and drainage system for proper management of watershed area.
				Maize	Poor yield and low quality of local variety Improper plant spacing with higher seed rate Drudgery in shelling of maize	Introduction of high yielding/hybride varieties Proper plant geometry and seed rate Use of maize shellers
				Potato	Low yield	Use of high yielding varieties and adoption of

						Integrated nutrient management to maintain the fertility status of soil.
					Non avialibility of quality planting material	Introduction of TPS technology
					Cut worm, Red ants	Use of suitable plant protection measures
				Banana	Cultivation of wild type low quality banana cultivars. Improper training of plants.	Introduction of high quality of banana cultivar such as Grand naine
				Passion fruit	Improper planting, training and pruning Insect pest and disease infestation. Post harvest losses of fruits and vegetables	Improved production technology of passion fruit. Use of suitable plant protection measures Development capabilities of rural youth and women in the field of fruits and vegetables processing and value addition.
				Pear, Peach & plum	Heavy weed infestation in the orchards Low yield and quality of pear peach and plum.	Control of weeds Use of high yielding varieties with improved production technology.
				Ginger	Rotting in field and as well as during storage	Soil and Seed treatment Proper storage of finished products
				Poultry	Low production performance of existing birds	Introduction of quality poultry germplasm/new kind of bird like turkey
					No provision of night shelter and unhygienic dwellings	Adequate and hygienic shelter/housing
					Improper feeding	Supplementary feeding for better growth and performance
					High epidemics of RD	Vaccination
				Piggery	Low production performance of local breeds Non-availability of piglets in the locality Tendency of the farmers to produce pork on zero to negligible inputs	Introduction of quality pig germplasm. Developing breeding unit of high performing breeds Creating awareness regarding performance and management of better germplasm
				Cattle	Poor milk production of local breed, Thotho	Breed improvement through selection and cross breeding
					Epidemics of FMD Parasitic infestation in young calves	Vaccination Deworming on regular intervals
5	**Chazuba**	Kikruma	**Thipuzu**	Maize	Poor yield and low quality of local variety Improper plant spacing with higher seed rate Drudgery in shelling of maize	Introduction of high yielding/hybride varieties Proper plant geometry and seed rate Use of maize shellers
						Introduction of high yielding varieties of paddy suitable for panikheti. Introduction of biofertilizers e.g.Rhizobium, Azotobacter, Azospirillum, Blue green algae, Azolla for nutrient management Use of suitable plant protection measures
				Paddy	Poor yield of local variety.	Introduction of improved paddy weeders and thrashers.
					Degrading soil fertility	Introduction of improved storage structure for cereals. Proper design of terrace, water harvesting, diversion, developing irrigation and drainage system for proper

					Stem borer infestation More time and labour consumption in weeding and thrashing of paddy Poor viability of seeds and loss due to improper storage Soil erosion, loss of fertility and degradation	management of watershed area. Use of high yielding varieties and adoption of Integrated nutrient management to maintain the fertility status of soil. Introduction of TPS technology
				Potato	Low yield	Use of suitable plant protection measures
					Non avialibility of quality planting material Cut worm, Red ants	Introduction of high quality of banana cultivar such as Grand naine
				Banana	Cultivation of wild type low quality banana cultivars. Improper training of plants.	Improved production technology of passion fruit. Use of suitable plant protection measures Development capabilities of rural youth and women in the field of fruits and vegetables processing and value addition.
				Passion fruit	Improper planting, training and pruning Insect pest and disease infestation. Post harvest losses of fruits and vegetables	Control of weeds Use of high yielding varieties with improved production technology.
				Pear, Peach & plum	Heavy weed infestation in the orchards Low yield and quality of pear peach and plum.	Soil and Seed treatment Proper storage of finished products
				Ginger	Rotting in field and as well as during storage	Introduction of quality poultry germplasm/new kind of bird like turkey Adequate and hygienic shelter/housing
				Poultry	Low production performance of existing birds No provision of night shelter and unhygienic dwellings Improper feeding	Supplementary feeding for better growth and performance Vaccination
					High epidemics of RD	Introduction of quality pig germplasm. Developing breeding unit of high performing breeds Creating awareness regarding performance and management of better germplasm
				Piggery	Low production performance of local breeds Non-availability of piglets in the locality Tendency of the farmers to produce pork on zero to negligible inputs	Breed improvement through selection and cross breeding Vaccination
				Cattle	Poor milk production of local breed, Thotho Epidemics of FMD Parasitic infestation in young calves	Deworming on regular intervals Introduction of power tiller and other tools and implements for hill agriculture
				Farm implements	Lack of improved tools and implements	

Priority thrust areas (prioritized in sync with thrust areas identified and given above)

Rank	Thrust area
1.	Introduction of high yielding varieties of paddy suitable for panikheti.
2.	Introduction of QPM technology
3.	Introduction of quality poultry, rabbit and pig germplasms for egg and meat production.
4.	Adequate Livestock and poultry health coverage measures
5.	Adoption of Integrated nutrient management to maintain the fertility status of soil.
6.	Introduction of biofertilizers e.g.Rhizobium, Azotobacter, Azospirillum, Blue green algae, Azolla for nutrient management
7.	Production technology for cole crops
8.	Production technology for off-season vegetable cultivation
9.	Improved production technology on passion fruit
10.	Introduction of high quality of banana cultivar such as Grand naine
11.	Awareness on improved production technology on ginger
12.	Introduction of high quality of banana cultivar such as Grand naine
13.	Introduction of disease resistance varieties of large cardamom
14.	Improved production technology on temperate fruits
15.	Proper design of terrace, water harvesting and diversion, irrigation and drainage system for proper management of watershed area
16.	Development capabilities of rural youth and women in the field of fruits and vegetables processing and value addition.
17.	Introduction of improved storage structure for cereals and pulses

PART – II
(OFT AND FLD)

2. Technical activities proposed

Abstract of interventions to be undertaken during 2011-12 (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.	Introduction of biofertilizer for nutrient management	Bean	Low productivity	-	Rhizobium seed treatment on bean.	Use of Biofertilizer	-	Folder on Use of Biofertilizer, Field day	Seeds, biofertilizer
2.	Nutrient management	Vermi-compost	High cost for constructing vermi compost pit.	Trial on low cost bamboo vermi-composting	-	Vermicomposting production	-	Folder on Vermicomposting production and field day	Earthworms, polythene sheet
3.	Introduction of biofertilizer for nutrient management	Potato	Poor availability of soil phosphorus	-	Biofertilizer application on potato	Use of PSB (Phosphorus soluble bacteria)	-	Folder on Use of Biofertilizer, Field day	Biofertilizer, potato tubers.
4.	Popularization of QPM	Maize	Poor quality of protein in maize		Popularization of QPM var. HQPM 1	Production and management of QPM	-	Folder on Production and management of QPM, Field day	seeds
5.	Introduction of HYV in paddy	Paddy	Lack of HYV seed	To evaluate the performance of HYV of paddy		Production and management of paddy	-	Folder on Production and management on paddy, Field day	seed
6.	Introduction of rapeseed	Rapeseed	New introduction.	To evaluate the performance of rapeseed var. TS-36		Production and management of rapeseed		Folder on Production and management of rapeseed, Field day	seed

7.	Popularization of field pea	Field Pea	Non availability of quality seeds		Popularization of field pea var. Rachna	Production and management of field pea.		Folder on Production and management of field pea, Field day	seed
8.	Integrated Pest Management	Cabbage	High infestation cabbage butterfly larvae	Effect of *Bacillus thuringensis* and neem oil against cabbage butter fly larvae		Pest management in cabbage		Folder on use of *Bacillus thuringensis* and neem oil to control butter fly in cabbage, Field day	Seedlings, Bt, Neem oil
9.	Integrated Disease Management	Tomato var. Rohini	Severe late blight in tomatoes	Late blight management in Tomato through fungicides.(Mancozeb and Carbendazim)		Disease management tomato		Folder on disease management in tomatoes.	Seedlings and fungicides
10.	Integrated Pest Management	Local Paddy	Severe infestation of stem borer in paddy		Popularization of *Trichogramma spp.* For management of stem borer in paddy.	Pest management in rice		Folder on common pests of paddy and their management, Field day	Trichocards
11.	Introduction of high yielding and better quality variety.	French bean	Poor quality of local beans due to high fibre content	Performance of French bean var Sel-9 (Arka komal)		Production technology on French bean.		Folder on Package of practice of French bean, Field day	Seed
12.	Introduction of new variety	Knolkhol	New introduction	Performance of Knolkhol var. Early White Vienna		Package of practices for knolkhol cultivation		Folder on Package of practices for knolkhol , Field day	Seed

13.	Popularization of protected cultivation technology	Tomato var. Rohini	High incidence of pest and diseases during rainy season		Popularization of protected cultivation technology for offseason tomato production	Offseason vegetable production under protected condition		Booklet on cultivation of high value vegetable under protected condition, field day.	Polysheet for low cost polyhouse.
14.	Introduction of high yielding variety with improved production technology	Carrot var. Early Nantes	Not cultivated commercially, broadcasting of seeds		Popularization of carrot var. Early Nantes in line sowing	Package of practices for commercial cultivation of carrot.		Folder on Package of practices for carrot, field day	seeds
15.	Water conservation and weed control	Cauliflower	Severe drought during winter, Cut worm and ant infestation	Performance of Cauliflower under mulch during winter		Use of organic and inorganic mulch in agriculture		Folder on mulching for vegetable	Black polysheet
16.	Water conservation and weed control	Rabi vegetable	Severe drought during winter, Cut worm and ant infestation	Use of Drip and mulch on Rabi vegetable during winter		Efficient use of water using drip irrigation.		Folder on drip irrigation.	Black polysheet Drip set.
17.	Drudgery reduction	Winnower	High energy consumption by traditional method	Hand operated mechanical winnower		Use of mechanical winnower for drudgery reduction		Folder on drudgery reduction tools.	Winnower
18.	Nursery	Paddy	More space requirement in traditional type of nursery	Mat nursery for raising rice seedling.		Mat nursery for plantation of paddy		Leaflet of preparing mat type of nursery.	Frame, polythene and seeds
19.	Egg production	Poultry	Low egg production, Non availability of layer type bird	Performance of gramapriya poultry		Package of practice of Poultry rearing		Folder on management of layers under backyard system	Chicks
20.	Meat production	Pig	Low meat production	Performance of Ghungroo Pigs		Package of practice of Pig rearing		Folder on Pig rearing	Piglets

Details of On Farm Trials be undertaken during 2011-12 (Target)

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	Assessment/ Refinement (WRITE A / R)	No. of trials*
1	2	3	4	5	6
Vermicompost	IR	High cost for constructing vermi compost pit.	Trial on low cost bamboo vermi-composting	A	3
Paddy	RF	Lack of HYV seed	To evaluate the performance of HYV of paddy	A	3
Rapeseed	RF	New introduction.	To evaluate the performance of rapeseed var. TS-36	A	3
Cabbage	RF	High infestation cabbage butterfly larvae	Effect of *Bacillus thuringensis* and neem oil against cabbage butter fly larvae	A	3
Tomato	RF	Severe late blight disease in tomato on resulting in high loss	Late blight management in Tomato through fungicides.	A	3
French bean	RF	Poor quality of local beans due to high fibre content	Performance of French bean var Sel-9 (Arka komal)	R	3
Knolkhol	RF	New introduction	Performance of Knolkhol var. Early White Vienna	A	3
Cauliflower	IR	Severe drought during winter, Cut worm and ant infestation	Performance of Cauliflower under mulch during winter	R	3
Rabi vegetable	IR	Severe drought during winter, Cut worm and ant infestation	Use of Drip and mulch on Rabi vegetable during winter	A	3
Drudgery reduction by through mechanical winnower	-	High energy consumption by traditional method	Hand operated mechanical winnower	A	3
Paddy		More space requirement in traditional type of nursery	Mat nursery for raising rice seedling.		
Poultry	-	Low egg production, Non availability of layer type bird	Performance of gramapriya poultry	A	20
Pig	-	Low meat production	Performance of Ghungroo Pigs	A	5

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
A	2002, State Agril. Dept, Nagaland	N	Not introduced in the region	Growth and yield parameters
A	ICAR , Jharnapani	N	Vermicompost are not use in this area	Analysis of compost NPK
A	-	N	Not introduced	Growth and yield parameters
A	RARS, Silongoni, AAU	N	Not introduced	Growth and yield parameters
A	2008, GBPUAT	Y	-	Percent pest infestation. Plant height, Plant spread , date of head formation, size of head, yield
A	2009	y	-	Percent disease infestation Plant height, plant spread, No. of fruits/plant, yield
R	2005, IIHR	N	Variety not yet introduced. Farmers are using the local variety as it is hardy and tolerant to high rainfall.	Plant height, plant spread, date of flowering, date of pod formation, No. of pods/plant, yield
A	2005, ICAR	N	Variety not yet introduced. Farmers follows broadcasting method for cultivation	Plant height, Plant spread, Root length, Root diameter, Yield
R	ICAR	Y	-	Soil temp. soil moisture, Yield
A		y	-	Soil temp. soil moisture, Yield, water use efficiency.
A	ICAR	Y	-	Time and labour consumption
A	ICAR	Y	-	Egg production, growth.
A	ICAR	Y	-	Growth, litter size, litter weight, feed and disease management

- **= 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 2010-11 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	Nutrient management	Biofertilizer application on potato	Training cum Demonstration	3	3	0.5
2	Crop production	Production and management of QPM	Training cum Demonstration	5	3	1
3	Crop production	Production and management of potato	Training cum Demonstration	3	3	0.5
4	Pest management	Popularization of *trichograma spp.* For stem borer management	Training cum Demonstration	2	20	7.68
5	Popularization of dwarf variety	Garden pea Dwarf var., Arkel	Training cum Demonstration	6	60	1.50
6	Mushroom production	Cultivation of Oyster mushroom	Training cum Demonstration	2 (SHG)	40	100 units
7	Value addition	Preparation of maize cake	Training cum Demonstration	2	50	2 cakes
8	Vanaraja	Performance as meat and egg	Training cum Demonstration	3	5	-
9	Poultry	Vaccination of poultry against RD	Training cum demonstration, field day	3	250	3000 Nos
10	Mithun	FMD Vaccination	Training cum demonstration, field day	3	20	200 Nos

** Thematic areas as given in Table on Training*

Details of FLDs to be implemented during 2011-12 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Notes (to be strictly followed in formulation of FLDs):
FLDs are conducted only on proven technologies.
FLDs are conducted on previously assessed/refined technologies which are found suitable for the KVK district.
Only latest technologies have to be selected for FLDs (Preferably less than 5 years old).
Examples: Same as in case of OFTs

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	Maize	Crop production	Production and management of QPM	Kharif 2011	A / Y		2	25		25
2	Paddy	IPM	*Trichogramma spp*	Kharif,2011	Y		2	10		10

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
					N					

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.	Field pea	Crop production	Var. Rachna	Rabi, 2011	Y		1	25		25

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.	Potato	Nutrient management	Biofertilizer application on potato	Rabi and 2012	A/Y	-	1	3		3
2.	Carrot	Crop production	Production technology of HYV	Kharif 2011	Y	-	0.05	5		5
3.	Tomato var. Rohini	Crop production	Protected cultivation technology	Kharif, 2011	Y		0.02	10		10

Extension and Training activities proposed under FLD

No.	Activity	No. of activities	Tentative Date	Number of participants	Remarks
1	Training and field demonstration and field day	1	25/3/11 30/7/11	25	
2	Training and field demonstration and field day	1	06/01/11	25	
3	Training and field demonstration and field day of trichochards	1	20/6/2011 15/9/2011	25	
4.	Training and field demonstration and field day of Carrot	1	5/4/2011 20/6/2011	25	
5.	Training and field demonstration and field day of Protected cultivation of Tomato	1	25/4/2011 15/8/2011	25	
6	Training and demonstration on improved farm implements	1	20/08/2011	15	

(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
1	Pea	Drudgery reduction, Crop geometry	Power tiller operated seed cum fertilizer drill	Winter	N	As pea has been tested in the area therefore sowing of seeds will be done through seed drill in terraces	0.1	5	0	5

(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		
Anthelmentic medication to reduce ecto-endo paracitic infestation	Goat	5	30	Growth disease, production	3	2		

** 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		

PART – III
(TRAINING PROGRAMMES)
3. Details of proposed training programmes (Including the sponsored and FLD training programmes
Note: The proportion of SC and ST participants for all training programmes should match with their proportion in the population of the KVK district.

On Campus

Thematic area	Courses (No)	No. of participants									Grand Total
		Others			SC			ST			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women											
I Crop Production											
Weed Management											
Nutrient Management											
Resource Conservation Technologies											
Cropping Systems											
Crop Diversification											
Integrated Farming systems											
Water management											
Seed production											
Nursery management											
Integrated Crop Management											
Fodder production											
Production of organic inputs											
II Horticulture											
a) Vegetable Crops											
Production of low volume and high value crops											
Off-season vegetables											
Nursery raising											
Exotic vegetables production											
Production of export potential vegetables											
Grading and standardization											
Protective cultivation (Green Houses, Shade Net etc.)											
b) **Fruits**											
Training											
Pruning											
Layout and Management of Orchards											
Cultivation of Fruit crops											
Management of young plants/orchards											
Rejuvenation of old orchards											
Cultivation of export potential fruits											
Micro irrigation systems of orchards											
Plant propagation techniques											
c) **Ornamental Plants**											
Nursery Management											
Management of potted plants											
Production of export potential ornamental plants											
Propagation techniques of Ornamental Plants											
d) Plantation crops											

Production and Management technology											
Processing and value addition											
e) Tuber crops											
Production and Management technology											
Processing and value addition											
f) Spices											
Production and Management technology											
Processing and value addition											
g) Medicinal and Aromatic Plants											
Nursery management											
Production and management technology											
Post harvest technology and value addition											
III Soil Health and Fertility Management											
Soil fertility management											
Soil and Water Conservation											
Integrated Nutrient Management											
Production and use of organic inputs											
Management of Problematic soils											
Micro nutrient deficiency in crops											
Nutrient Use Efficiency											
Soil and Water Testing											
IV Livestock Production and Management											
Dairy Management											
Poultry Management											
Piggery Management											
Rabbit Management											
Disease Management											
Feed management											
Production of quality animal products											
V Home Science/Women empowerment											
Household food security by nutrition gardening											
Design and development of low/minimum cost diet											
Designing and development for high nutrient efficiency diet											
Minimization of nutrient loss in processing											
Gender mainstreaming through SHGs											
Storage loss minimization techniques											
Value addition											
Income generation activities for empowerment of rural Women											
Location specific drudgery reduction technologies											
Rural Crafts											
Women and child care											
VI Agricultural Engineering											
Installation and maintenance of micro irrigation systems											
Use of Plastics in farming practices											
Production of small tools and implements											
Repair and maintenance of farm machinery and implements											
Small scale processing and value addition											
Post Harvest Technologies											
VII Plant Protection											

Integrated Pest Management											
Disease Management											
Bio-control of pests and diseases											
Production of bio control agents and bio pesticides											
VIII Fisheries											
Integrated fish farming											
Carp breeding and hatchery management											
Carp fry and fingerling rearing											
Composite fish culture											
Hatchery management and culture of freshwater prawn											
Breeding and culture of ornamental fishes											
Portable plastic carp hatchery											
Pen culture of fish and prawn											
Shrimp farming											
Edible oyster farming											
Pearl culture											
Fish processing and value addition											
IX Production of Inputs at site											
Seed Production											
Planting material production											
Bio-agents production											
Bio-pesticides production											
Bio-fertilizer production											
Vermicompost production											
Other Organic manures production											
Production of fry and fingerlings											
Production of Bee-colonies and wax sheets											
Small tools and implements											
Production of livestock feed and fodder											
Production of Fish feed											
X Capacity Building and Group Dynamics											
Leadership development in villages											
Managing Group dynamics											
Formation and Management of SHGs											
Mobilization of social capital in villages											
Entrepreneurial development of farmers/youths											
WTO and IPR issues											
XI Agro-forestry											
Production technologies											
Nursery management											
Integrated Farming Systems											
XII Others (Pl. Specify)											
TOTAL											
(B) RURAL YOUTH											
Mushroom Production											
Bee-keeping											
Integrated farming											
Seed production											
Production of organic inputs											

Integrated Farming											
Planting material production											
Vermiculture											
Sericulture											
Protected cultivation of vegetable crops											
Commercial fruit production											
Repair and maintenance of farm machinery and implements											
Nursery Management of Horticulture crops											
Training and pruning of orchards											
Value addition											
Production of quality animal products											
Dairying											
Sheep and goat rearing											
Quail farming											
Piggery											
Rabbit farming											
Poultry production											
Ornamental fisheries											
Training as Para vets											
Training as Para extension workers											
Composite fish culture											
Freshwater prawn culture											
Fish harvest and processing technology											
Fry and fingerling rearing											
Small scale processing											
Post Harvest Technology											
Tailoring and Stitching											
Rural Crafts											
TOTAL											
(C) Extension Personnel											
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)											
TOTAL											

Off Campus

Thematic area	Courses (No)	No. of participants									Grand Total
		Others			SC			ST			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women											
I Crop Production											
Weed Management	1							10	15	25	25
Nutrient Management	1							10	15	25	25
Resource Conservation Technologies	1							15	10	25	25
Cropping Systems											
Crop Diversification	1							15	10	25	25
Integrated Farming systems											
Water management											
Seed production	1							10	15	25	25
Nursery management											
Integrated Crop Management	1							10	15	25	25
Fodder production	1							10	15	25	25
Production of organic inputs											
II Horticulture											
a) Vegetable Crops											
Production of low volume and high value crops	2							30	20	50	50
Off-season vegetables											
Nursery raising	1							15	10	25	25
Exotic vegetables production											
Production of export potential vegetables											
Grading and standardization											
Protective cultivation (Green Houses, Shade Net etc.)	1							10	15	25	25
b) Fruits											
Training											
Pruning											
Layout and Management of Orchards	1							10	15	25	25
Cultivation of Fruit crops	1							15	10	25	25
Management of young plants/orchards											
Rejuvenation of old orchards											
Cultivation of export potential fruits	1							10	15	25	25
Micro irrigation systems of orchards											
Plant propagation techniques	1							10	15	25	25
c) Ornamental Plants											
Nursery Management											
Management of potted plants											
Production of export potential ornamental plants											
Propagation techniques of Ornamental Plants											
d) Plantation crops											
Production and Management technology											
Processing and value addition											
e) Tuber crops											
Production and Management technology	1							10	15	25	25
Processing and value addition											

f) Spices											
Production and Management technology	1							15	10	25	25
Processing and value addition											
g) Medicinal and Aromatic Plants											
Nursery management											
Production and management technology											
Post harvest technology and value addition											
III Soil Health and Fertility Management											
Soil fertility management	1							15	10	25	25
Soil and Water Conservation	4							55	45	100	100
Integrated Nutrient Management											
Production and use of organic inputs	1							10	15	25	25
Management of Problematic soils	1							15	10	25	25
Micro nutrient deficiency in crops	1							15	10	25	25
Nutrient Use Efficiency											
Soil and Water Testing											
IV Livestock Production and Management											
Dairy Management											
Poultry Management	2							30	20	50	50
Piggery Management	1							15	10	25	25
Rabbit Management	2							30	20	50	50
Disease Management	1							15	10	25	25
Feed management	1							15	10	25	25
Production of quality animal products	1							15	10	25	25
V Home Science/Women empowerment											
Household food security by nutrition gardening	1							10	15	25	25
Design and development of low/minimum cost diet	1							10	15	25	25
Designing and development for high nutrient efficiency diet											
Minimization of nutrient loss in processing	1							10	15	25	25
Gender mainstreaming through SHGs											
Storage loss minimization techniques											
Value addition	1							10	15	25	25
Income generation activities for empowerment of rural Women											
Location specific drudgery reduction technologies											
Rural Crafts	1							10	15	25	25
Women and child care	1							0	25	25	25
VI Agricultural Engineering											
Installation and maintenance of micro irrigation systems	2							30	20	50	50
Use of Plastics in farming practices	1							15	10	25	25
Production of small tools and implements											
Repair and maintenance of farm machinery and implements	3							45	30	75	75
Small scale processing and value addition											
Post Harvest Technologies											
VII Plant Protection											
Integrated Pest Management	4							75	25	100	100
Disease Management	3							50	25	75	75
Bio-control of pests and diseases	2							30	20	50	50
Production of bio control agents and bio pesticides											

VIII Fisheries											
Integrated fish farming											
Carp breeding and hatchery management											
Carp fry and fingerling rearing											
Composite fish culture											
Hatchery management and culture of freshwater prawn											
Breeding and culture of ornamental fishes											
Portable plastic carp hatchery											
Pen culture of fish and prawn											
Shrimp farming											
Edible oyster farming											
Pearl culture											
Fish processing and value addition											
IX Production of Inputs at site											
Seed Production											
Planting material production											
Bio-agents production											
Bio-pesticides production											
Bio-fertilizer production											
Vermicompost production	2							30	20	50	50
Other Organic manures production	1							10	15	25	25
Production of fry and fingerlings											
Production of Bee-colonies and wax sheets											
Small tools and implements											
Production of livestock feed and fodder											
Production of Fish feed											
X Capacity Building and Group Dynamics											
Leadership development in villages											
Managing Group dynamics											
Formation and Management of SHGs											
Mobilization of social capital in villages											
Entrepreneurial development of farmers/youths											
WTO and IPR issues											
XI Agro-forestry											
Production technologies											
Nursery management											
Integrated Farming Systems											
XII Others (Pl. Specify)											
TOTAL	**57**							**760**	**640**	**1200**	**1400**
(B) RURAL YOUTH											
Mushroom Production											
Bee-keeping	2							30	20	50	50
Integrated farming											
Seed production	1							13	12	25	25
Production of organic inputs	2							30	20	50	50
Integrated Farming	1							15	10	25	25
Planting material production											
Vermiculture	1							15	10	25	25

Sericulture											
Protected cultivation of vegetable crops	1							15	10	25	25
Commercial fruit production	1							15	10	25	25
Repair and maintenance of farm machinery and implements	1							10	05	15	15
Nursery Management of Horticulture crops											
Training and pruning of orchards											
Value addition	1							10	25	25	25
Production of quality animal products											
Dairying											
Sheep and goat rearing	1							15	10	25	25
Quail farming											
Piggery	1							15	10	25	25
Rabbit farming	1							15	10	25	25
Poultry production	1							15	10	25	25
Ornamental fisheries											
Training as Para vets											
Training as Para extension workers											
Composite fish culture											
Freshwater prawn culture											
Fish harvest and processing technology											
Fry and fingerling rearing											
Small scale processing	2							20	30	50	50
Post Harvest Technology											
Tailoring and Stitching											
Rural Crafts	1							10	15	25	25
TOTAL	**18**							**243**	**207**	**450**	**450**
© Extension Personnel											
Productivity enhancement in field crops	1							**15**	**10**	**25**	**25**
Integrated Pest Management	1							10	05	15	15
Integrated Nutrient management											
Rejuvenation of old orchards	1							10	05	15	15
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	1							10	05	15	15
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
Soil and water conservation	2							15	10	25	25
TOTAL	**6**							**60**	**35**	**95**	**95**
Grand Total	**81**							**1073**	**897**	**1970**	**1970**

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	
(A) Farmers & Farm Women											
I Crop Production											
Weed Management	1							10	15	25	25
Nutrient Management	1							10	15	25	25
Resource Conservation Technologies	1							15	10	25	25
Cropping Systems											
Crop Diversification	1							15	10	25	25
Integrated Farming systems											
Water management											
Seed production	1							10	15	25	25
Nursery management											
Integrated Crop Management	1							10	15	25	25
Fodder production	1							10	15	25	25
Production of organic inputs											
II Horticulture											
a) Vegetable Crops											
Production of low volume and high value crops	2							30	20	50	50
Off-season vegetables											
Nursery raising	1							15	10	25	25
Exotic vegetables production											
Production of export potential vegetables											
Grading and standardization											
Protective cultivation (Green Houses, Shade Net etc.)	1							10	15	25	25
b) Fruits											
Training											
Pruning											
Layout and Management of Orchards	1							10	15	25	25
Cultivation of Fruit crops	1							15	10	25	25
Management of young plants/orchards											
Rejuvenation of old orchards											
Cultivation of export potential fruits	1							10	15	25	25
Micro irrigation systems of orchards											
Plant propagation techniques	1							10	15	25	25
c) Ornamental Plants											
Nursery Management											
Management of potted plants											
Production of export potential ornamental plants											
Propagation techniques of Ornamental Plants											
d) Plantation crops											
Production and Management technology											
Processing and value addition											
e) Tuber crops											
Production and Management technology	1							**10**	**15**	**25**	**25**
Processing and value addition											

f) Spices											
Production and Management technology	1							15	10	25	25
Processing and value addition											
g) Medicinal and Aromatic Plants											
Nursery management											
Production and management technology											
Post harvest technology and value addition											
III Soil Health and Fertility Management											
Soil fertility management	1							15	10	25	25
Soil and Water Conservation	4							55	45	100	100
Integrated Nutrient Management											
Production and use of organic inputs	1							10	15	25	25
Management of Problematic soils	1							15	10	25	25
Micro nutrient deficiency in crops	1							15	10	25	25
Nutrient Use Efficiency											
Soil and Water Testing											
IV Livestock Production and Management											
Dairy Management											
Poultry Management	2							30	20	50	50
Piggery Management	1							15	10	25	25
Rabbit Management	2							30	20	50	50
Disease Management	1							15	10	25	25
Feed management	1							15	10	25	25
Production of quality animal products	1							15	10	25	25
V Home Science/Women empowerment											
Household food security by nutrition gardening	1							10	15	25	25
Design and development of low/minimum cost diet	1							10	15	25	25
Designing and development for high nutrient efficiency diet											
Minimization of nutrient loss in processing	1							10	15	25	25
Gender mainstreaming through SHGs											
Storage loss minimization techniques											
Value addition	1							10	15	25	25
Income generation activities for empowerment of rural Women											
Location specific drudgery reduction technologies											
Rural Crafts	1							10	15	25	25
Women and child care	1							0	25	25	25
VI Agricultural Engineering											
Installation and maintenance of micro irrigation systems	2							30	20	50	50
Use of Plastics in farming practices	1							15	10	25	25
Production of small tools and implements											
Repair and maintenance of farm machinery and implements	3							45	30	75	75
Small scale processing and value addition											
Post Harvest Technologies											
VII Plant Protection											
Integrated Pest Management	4							75	25	100	100
Disease Management	3							50	25	75	75
Bio-control of pests and diseases	2							30	20	50	50
Production of bio control agents and bio pesticides											

VIII Fisheries											
Integrated fish farming											
Carp breeding and hatchery management											
Carp fry and fingerling rearing											
Composite fish culture											
Hatchery management and culture of freshwater prawn											
Breeding and culture of ornamental fishes											
Portable plastic carp hatchery											
Pen culture of fish and prawn											
Shrimp farming											
Edible oyster farming											
Pearl culture											
Fish processing and value addition											
IX Production of Inputs at site											
Seed Production											
Planting material production											
Bio-agents production											
Bio-pesticides production											
Bio-fertilizer production											
Vermicompost production	2							30	20	50	50
Other Organic manures production	1							10	15	25	25
Production of fry and fingerlings											
Production of Bee-colonies and wax sheets											
Small tools and implements											
Production of livestock feed and fodder											
Production of Fish feed											
X Capacity Building and Group Dynamics											
Leadership development in villages											
Managing Group dynamics											
Formation and Management of SHGs											
Mobilization of social capital in villages											
Entrepreneurial development of farmers/youths											
WTO and IPR issues											
XI Agro-forestry											
Production technologies											
Nursery management											
Integrated Farming Systems											
XII Others (Pl. Specify)											
TOTAL	**57**							**760**	**640**	**1200**	**1400**
(B) RURAL YOUTH											
Mushroom Production											
Bee-keeping	2							30	20	50	50
Integrated farming											
Seed production	1							13	12	25	25
Production of organic inputs	2							30	20	50	50
Integrated Farming	1							15	10	25	25
Planting material production											
Vermiculture	1							15	10	25	25

Sericulture											
Protected cultivation of vegetable crops	1							15	10	25	25
Commercial fruit production	1							15	10	25	25
Repair and maintenance of farm machinery and implements	1							10	05	15	15
Nursery Management of Horticulture crops											
Training and pruning of orchards											
Value addition	1							10	25	25	25
Production of quality animal products											
Dairying											
Sheep and goat rearing	1							15	10	25	25
Quail farming											
Piggery	1							15	10	25	25
Rabbit farming	1							15	10	25	25
Poultry production	1							15	10	25	25
Ornamental fisheries											
Training as Para vets											
Training as Para extension workers											
Composite fish culture											
Freshwater prawn culture											
Fish harvest and processing technology											
Fry and fingerling rearing											
Small scale processing	2							20	30	50	50
Post Harvest Technology											
Tailoring and Stitching											
Rural Crafts	1							10	15	25	25
TOTAL	**18**							**243**	**207**	**450**	**450**
© Extension Personnel											
Productivity enhancement in field crops	1							**15**	**10**	**25**	**25**
Integrated Pest Management	1							10	05	15	15
Integrated Nutrient management											
Rejuvenation of old orchards	1							10	05	15	15
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	1							10	05	15	15
Gender mainstreaming through SHGs											
Any other (Pl. Specify)											
Soil and water conservation	2							15	10	25	25
TOTAL	**6**							**60**	**35**	**95**	**95**
Grand Total	**81**							**1073**	**897**	**1970**	**1970**

Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants		
				Male	Female	Total
Rabbitry	Introduction of quality rabbit germplasms for meat production.	Commercial rabbit farming	6	10	10	20
Piggery	Introduction of quality pig germplasms for meat production.	Commercial Pig production	6	10	10	20
Goatery	Introduction of quality Goat germplasms for meat production.	Commercial Goat farming	6	10	10	20

*training title should specify the major technology /skill transferred

Sponsored Training Programmes

No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of Participants									Sponsoring Agency
					PF/RY /EF		Male			Female			Total			
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	Rabbitry	Meat production	oct	4	PF	4			60			60				120	NABARD
2	Small scale processing of fruits and vegetables	Value addition	oct	4	RY	2			30			30				60	NGO
Total						**6**			**90**			**90**				**180**	

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

4. Proposed Extension Activities for the year Oct 10-Mar 11 (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	20	100	100	200	**5**	**5**	**10**	**50**	**50**	**100**	155	155	310
Kisan Mela	1	50	25	75				**50**	**25**		100	50	150
Kisan Gosthi													
Exhibition	2	50	50	100	**1**	**1**	**2**				51	51	102
Film Show	4	50	10	60				**25**	**25**	**50**	75	35	110
Method Demonstrations	3	25	10	35				**10**	**15**	**25**	35	25	60
Farmers Seminar													
Workshop													
Group meetings	2	50	10	60							50	10	60
Lectures delivered as resource persons	4	50	30	80							50	30	80
Newspaper coverage	7												
Radio talks	7												
TV talks													
Popular articles	14												
Extension Literature	9												
Advisory Services													
Scientific visit to farmers field	20												
Farmers visit to KVK	50												
Diagnostic visits	15												
Exposure visits	6	20	5	25				**50**	**20**	**70**	70	25	95
Ex-trainees Sammelan													
Soil health Camp													
Animal Health Camp	4	50	20	70							50	20	70
Agri mobile clinic													
Soil test campaigns	1												
Farm Science Club Conveners meet													
Self Help Group Conveners meetings	4												
Mahila Mandals Conveners meetings													
Celebration of important days (specify)	2	50	20	70							50	20	70
Any Other (Specify)													
Total	148	400	155	555				**165**	**110**	**275**	515	265	830

M=Male **F=Female** **T=Total**

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)
Cereals					
Oilseeds					
Pulses					
Vegetables	Carrot	Early nantes	300gm	500.00	5
	Tomato	Rohini	1500seedlings	500.00	10
	Knol khol	Early white Vienna	250gm	140.00	5
	French bean	Sel-9	2kg	370.00	3
Flower Crops					
Others (Specify)					

Planting materials

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	To be provided to (No. of Farmers)
Fruits					
Spices					
Vegetables					
Forest Species					
Ornamental Crops					
Plantation Crops					
Others (specify)					

Bioproducts

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	To be provided to (No. of Farmers)
			No	(kg)		
Bioagents						
1						
2						
3						
4						
Biofertilizers						
1						
2						
3						
4						
Bio Pesticides						
1						
2						
3						
4						

Livestock

Sl. No.	Type	Breed	Quantity		Value (Rs.)	To be provided to (No. of Farmers)
			Nos	Kgs		
Cattle						
Sheep and Goat						
Poultry	**Layer**	**Gramapriya**	**200**	**200**	**20000**	**20**
Fisheries						
Others (Specify)						
Rabbit	**Meat**	**Soviet chinchilla and New Zealand white**	**250**	**-**	**37000**	**125**
Pig	**Meat**	**Hampshire cross**	**20**		**20000**	**10**

Literature proposed to be developed/ published

Item	Title	Number
Research papers	Rabbitry, piggery, drip irrigation, mulching, protected cultivation.	6
Technical reports	Pig, poultry, Rabbit, Drudgery, Azolla Protected cultivation technology,	6
News letters	Yirhi Dzu	2
Technical bulletins	Rabbitry, piggery, poultry, offseason tomato, mulching	5
Popular articles	-	6
Extension literature	Folders/leaflets	20
Others (Pl. specify) E Megazine	-	4
VCD (Film)		2
Total		**21**

Details of Electronic Media proposed

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette)	Proposed title of the programme	Number
1	**VCD**	Drip irrigation	**1**
2		**Protected cultivation**	**1**

Field activities proposed

i. Number of villages to be adopted : 2
ii. No. of farm families to be selected : 50
iii. No. of surveys/PRA to be conducted : 2

Proposed activities of Soil and Water Testing Laboratory : NA

Status of establishment of Lab :

1. Year of establishment :
2. Details of samples to be analyzed :

Details	No. of Samples	No. of Farmers	No. of Villages
Soil Samples	100	-	1
Water Samples			
Total			

PART – V
(LINKAGES WITH OUTSIDE ORGANISATIONS)

5. Proposed Linkages

Functional linkage with different organizations

Name of organization	Nature of linkage
1. NABARD	Financial
2. SAU	Technical
3. NGO	Technology transfer
4. Bank	Technical
5.District Line departments	Technical

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.)
Climate Change Resilient Agriculture	**April 2011**	**ICAR**	**30.35lakh**

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 and demonstration**	**Technical and financial**

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

S. No.	Programme	Nature of linkage proposed

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

S. No.	Programme	Nature of linkage proposed

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
1	Rabbitry	2009	40 sqm					
2.	Vermicomposting	2009	10sqm					

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								
Pulses								
Oilseeds								
Fibers								
Spices								
Plantation crops								
Floriculture								
Fruits								
Vegetables								
Others (Specify)								

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

No.	Name of the Product	Qty	Amount (Rs.)	
			Cost of inputs	Gross income expected

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	Rabbit	New Zealand Rabbit	Meat	100 Kg
2	Fish	Common crap	Meat	25 Kg

PART – VII
(SUMMARY)

7. Summary

Targets for 2011-12 for KVK, ___Phek_____

On Farm Trials

Thematic areas	Cereals	Pulses	Vegetables	Fruits	Fodder	Others	Total
Varietal Evaluation	1	1	2	-	-		4
Integrated Nutrient Management	-	-	2	-	-		2
Integrated Pest Management	-	-	1	-	-		1
Intregrated Disease management	-	-	1	-	-		1
Biofertilisers	-	-	-	-	-		
Water Management	-	-	1	-	-		1
Fisheries							
Animal Science							
Food processing							2
Others(winnower)	1	-	-	-	-	2	1
Grand total	**2**	**1**	**7**				**12**

FLDs on oilseed and pulse crops

Name of KVK	Oilseeds		Pulses	
	Area (ha)	No. of farmers	Area (ha)	No. of farmers
KVK Phek, Nagaland	1.0	25		
Total	1.0	25		

Other FLDs

Name of KVK	Other Cops		Enterprise	
	Area (ha)	No. of farmers	Area (ha)	No. of farmers
KVK Phek, Nagaland	5.07	53	0.01	20
Total	5.07	53		

Training programmes

Area	Farmers/ farm women		Rural youth		Extension personnel	
	Courses	Participants	Courses	Participants	Courses	Participants
Crop Production	7	175	2	50	1	25
Horticulture	9	225	2	50	1	15
Plant Protection	9	225	2	50	1	15
Home Science	6	150	4	110	-	-
Animal Science	8	200	4	100		
Soil Science	9	190	3	75	1	15
Agril Engineering	9	225	1	15	2	25
Total	**57**	**1390**	**18**	**485**	**6**	**95**

Extension Activities

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	6	55	25	80				**30**	**25**	**55**	85	50	135
Kisan Mela	1	50	25	75				**50**	**25**		100	50	150
Kisan Gosthi													
Exhibition													
Film Show	4	50	10	60				**25**	**25**	**50**	75	35	110
Method Demonstrations	3	25	10	35				**10**	**15**	**25**	35	25	60
Farmers Seminar													
Workshop													
Group meetings	2	50	10	60							50	10	60
Lectures delivered as resource persons	4	50	30	80							50	30	80
Newspaper coverage	7												
Radio talks	7												
TV talks													
Popular articles	14												
Extension Literature	9												
Advisory Services													
Scientific visit to farmers field	20												
Farmers visit to KVK	50												
Diagnostic visits	15												
Exposure visits	4	20	5	25				**50**	**20**	**70**	70	25	95
Ex-trainees Sammelan													
Soil health Camp													
Animal Health Camp	1	50	20	70							50	20	70
Agri mobile clinic													
Soil test campaigns	1												
Farm Science Club Conveners meet													
Self Help Group Conveners meetings													
Mahila Mandals Conveners meetings													
Celebration of important days (specify)	2	50	20	70							50	20	70
Any Other (Specify)													
Total	148	400	155	555				**165**	**110**	**275**	515	265	830

M=Male F=Female T=Total

Seed Production

KVK	Quantity (qtl)			
	Cereals	Oilseeds	Pulses	Vegetables
KVK Phek, Nagaland				
Total				

Planting Materials

KVK	Quantity (nos)			
	Fruits	Vegetable Seedlings	Tree Species	Ornamental Plants
KVK Phek, Nagaland		1500 (tomato var.Rohini)	1000Nos(*Ficus hookeri)*	
Total				

_____
Signature,
Programme coordinator,
KVK, _____

(Signature not needed in case of soft copy)

Notes:

The filled in Proforma has to be emailed to **icar_zcu3@yahoo.co.in** on or before **15th September, 2008**. Also the action plan has to be submitted in a CD during the Annual Zonal Workshop of KVKs to be held at Itanagar, Arunachal Pradesh during September 2008. The action plan will be verified on the spot before submission. **Incomplete and casually filled proformas not complying with the given guidelines will not be accepted.** Hence KVKs are requested to take utmost care in filling up the proforma in line with the guidelines provided at the beginning.

Materials to be submitted at Annual Zonal Workshop of KVKs:

1. **3 hard copies of Annual Report 2007-08**
2. **3 hard copies of Annual Action Plan 2008-09**
3. **One CD containing 3 separate folders namely Annual Action Plan 2008-09, Annual Report 2007-08 and Action Photographs.**

(The folder on action photographs should contain 10 action photos in JPEG format. The photos should be as separate JPEG files and not to be pasted in a single Word file. The name of each JPEG file should indicate the activity in Photograph in detail.)