

# PROFORMA FOR ANNUAL REPORT OF KVKS, 2011-12

## 1. GENERAL INFORMATION ABOUT THE KVK

### 1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
KVK Yisemyong Post Box No-23 Mokokchung Nagaland	OFFICE 0369- 2225121	FAX 0369- 2227627 - 2225121	<a href="mailto:kvkmokokchung@gmail.com">kvkmokokchung@gmail.com</a> <a href="mailto:kvkyisemyong@rediffmail.com">kvkyisemyong@rediffmail.com</a>

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

Address	Telephone		E mail
	Office	FAX	
Directorate of Agriculture Nagaland Kohima	0370- 2243116	0370-2243970	agrilan@rediffmail.com

### 1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Bendangyanger	-	9436004778	-

### 1.4. Year of sanction: 2003

### 1.5. Staff Position (As on 31<sup>st</sup> March, 2012)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Programme Coordinator	Dr. Bendangyanger	I/C Programme Coordinator	APM	-	-	30.06.11	Temporary	ST
2	Subject Matter Specialist	Renbomo Ngullie	SMS (Horticulture)	Horticulture	15600 + 5400	18240+ 5400	24.05.06	Temporary	ST
3	Subject Matter Specialist	Akangtemjen	SMS (Entomology)	Entomology	15600 + 5400	18240+ 5400	24.05.06	Temporary	ST
4	Subject Matter Specialist	Dr. Rongsensusang	SMS (Vety. &AH)	Vety & AH	16380 + 5400	18240+ 5400	24.05.06	Temporary	ST
5	Subject Matter Specialist	Samuel Sangtam	SMS (Agronomy)	Agronomy	15600 + 5400	18240+ 5400	24.05.06	Temporary	ST
6	Subject Matter Specialist	Bendangjungla	SMS (PB &G)	PB &G	15600 + 5400	18240+ 5400	24.05.06	Temporary	ST
7	Subject Matter Specialist	Royuso Nakhro	SMS (Extension)	Agri. Extension	15600 + 5400	17550 + 5400	13.11.07	Temporary	ST
8	Programme Assistant	Moainla	Programme Asstt		10230 + 4200	12060 + 4200	24.05.06	Temporary	ST
9	Computer Programmer	I.Tangitla	Programme Asstt (Computer)		10230 + 4200	12060 + 4200	24.05.06	Temporary	ST
10	Farm Manager	Jweni Semp	Programme Asstt (Farm)		10230 + 4200	11580 + 4200	07.11.07	Temporary	ST
11	Accountant / Superintendent	Meyatula	Office Supt-cum-Accountant		10230 + 4200	12060 + 4200	01.06.06	Temporary	ST
12	Stenographer	Imosangla	Jr. Steno-cum-Computer Operator		7440 + 2400	8700 + 2400	01.06.06	Temporary	ST
13	Driver-cum-Mechanic	Supongmeren	Driver		5680 + 1900	6650 + 1900	01.06.06	Temporary	ST
14	Driver-cum-Mechanic	Jongpongyanger	Driver		5680 + 1900	5680 + 1900	01.03.10	Temporary	ST
15	Supporting staff	Imkonglemla	Peon		4750 + 1300	5530 + 1300	01.06.06	Temporary	ST
16	Supporting staff	Aotoshi	Chowkidar		4750 + 1300	4750 + 1300	01.03.10	Temporary	ST

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	1
2.	Under Demonstration Units	0.4
3.	Under Crops	3 (Instructional Farm)
4.	Orchard/Agro-forestry	1.42 ha
5.	Others (specify)	17.4

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	20.06.09	400	53.5 lakhs	28.09.07	400	completed
2.	Farmers Hostel	NA	NA	NA	NA	NA	NA	NA
3.	Staff Quarters (6)	ICAR	NA	200		2011	100	On going
4.	Demonstration Units (2)	Host & ATMA	2008 & 2010	40	0.90 lakh	2008 & 2010	40	Completed
		ICAR	Ongoing	7500	3.5	2011	-	ongoing
5	Fencing	ICAR	30.09.11	800mtr	17.0 lakhs	2011	-	Completed

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Marshall	2004	5.4 lakhs	92,500 km	Need replacement

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
<b>1. Computer</b>	<b>2004</b>	<b>70000</b>	<b>Good</b>
<b>2. Sound system</b>	<b>2005</b>	<b>60000</b>	<b>Good</b>
<b>3. Digital camera</b>	<b>2004</b>	<b>70000</b>	<b>Unserviceable</b>
<b>4. OHP</b>	<b>2004</b>	<b>5000</b>	<b>Good</b>
<b>5. Laptop</b>	<b>2008</b>	<b>37,000</b>	<b>Good</b>
<b>6. Handycam</b>	<b>2008</b>	<b>16,000</b>	<b>Out of order</b>
<b>7. Photocopier</b>	<b>2010</b>	<b>1,20,000</b>	<b>Good</b>
<b>8. Handycam</b>	<b>2010</b>	<b>18,000</b>	<b>Good</b>
<b>9. Computer</b>	<b>2010</b>	<b>45,000</b>	<b>Good</b>
<b>10. LCD projector</b>	<b>2010</b>	<b>55,000</b>	<b>Good</b>

1.8. A). Details SAC meeting\* conducted in the year

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	09/02/12	E H Lotha Addl. Director of Agri. Nagaland, Dr. Dipak Chetri, Jt. Dir. Agri. Nagaland, Bendangyanger Jt. Dir. Agri. Nagaland, N Thungjamo Lotha Dy. Dir. Agri. Nagaland, Kilemsungba DHO,	<ul style="list-style-type: none"> <li>✓ Approval of all the publications</li> <li>✓ Name of local check varieties to be indicated.</li> <li>✓ Attention to be focused on sericulture</li> <li>✓ Presentation of activities report and action plan</li> </ul>	All the recommendations were refined and finalized for implementation of the programmes

		Mokokchung, Imtiyongdang Ao DSCO, Mokokchung, Bendang T Jamir Dy. Dir. Sericulture, Er. Achakbou Newmai Sr. Engr. Agri. Dr. Amenla LTO, Agri. Rongsennungla Dy. PD ATMA I Lipokonen Jamir Asst. Agronomist, DAO T N Temjen Jamir President PFFA, All the KVK staff.		
2.				

## **2. DETAILS OF DISTRICT**

### 2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Agriculture +Horticulture
2	Agriculture + Veterinary
3	Agriculture + Fishery
4	Agriculture + Horticulture + Veterinary + Fishery

### 2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1	Mid Tropical hill Zone	i. Hot and humid in the foot hills to moderate in the mid and high with heavy rainfall during summer
		ii. Moderate to extreme cold and dry in higher altitude during winter

### 2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Sandy clay loam	20-35% clay 28% silt 45% more sand pH 4-5	1,20,000
2	Clay Loam	27-40% clay 20-45% sand Medium organic matter pH 4-5	40,000
3	Forest Soil	Broad leaves rain forest, evergreen, temperate climate, high organic matter, dark brown soil with pH 4	50

### 2.4. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1	Jhum paddy	11450	21880	19.10
2	TRC paddy	4935	15360	31.12
3	Maize	1130	1140	37.53

4	Tapioca	1050	308910	294.2
5	Mustard	270	187	6.92
6	Tomato	28	7600	271.4
7	Potato	125	9375	75
8	Colocassia	1500	1,80,000	120
9	Passion fruit	908	63560	70
10	Orange	460	20700	215
11	Banana	270	3888	144.4
12	Pineapple	340	238000	700
13	Pear	16	3500	218.7
14	Tea	520	3120	6 (made tea)
15	Arecanut	44	600	15

### 2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April 2011	276.9	25.9	17.1	48
May	239.7	27.2	18.3	78
June	472.3	24.8	17.5	84
July	364.6	28.1	20.2	84
August	396.6	28.5	20.3	86
Sept	399.7	27.6	19.4	80
Oct	390.7	26.3	17.3	74
Nov	Nil	23.7	13.3	65
Dec	77.5	21.1	9.6	62
Jan 2012	221.6	19.1	7.6	63
Feb	48.3	22.5	10.6	60
March	103.5	25.6	14.1	60

### 2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	<b>620</b>	<b>502MT</b>	<b>3lit/day lactation period of 270 days</b>
<i>Indigenous</i>	<b>265</b>	<b>1</b>	<b>120kg in 12 months</b>
<b>Buffalo</b>	-	-	-
<b>Sheep</b>			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	-	-	-
<b>Goats</b>	<b>162</b>	<b>972 kg</b>	<b>6-7 kg per year</b>
<b>Pigs</b>			
<i>Crossbred</i>	<b>14900</b>	<b>1266.5MT</b>	<b>85 kg in 12 months</b>
<i>Indigenous</i>	-	-	-
<b>Rabbits</b>	-	-	-
<b>Poultry</b>			
Hens	-	-	-
<i>Desi</i>	<b>111750</b>	<b>83.8MT</b>	<b>750gm in 6months</b>
<i>Improved</i>	<b>10000</b>	<b>10MT</b>	<b>1kg in one month</b>
Ducks	-	-	-
Turkey and others	-	-	-

Category	Area	Production	Productivity
Fish	-	-	-
<i>Marine</i>	-	-	-
<i>Inland</i>	-	-	-
Prawn	-	--	-
Scampi	-	-	-
Shrimp	-	-	-

## 2.6 Details of Operational area / Villages (2011-12)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1		Ongpangkong (N)	Ungma, Mokokchung village, Longsa	Paddy, Maize, Tapioca Ginger, Passion fruit Tea, Piggery, Poultry, weaving	Low productivity due to non adoption of improved technology, Majority of the farmers involved in cultivation of mix crops, lack of awareness on potentialities of floriculture, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, lack of proper infrastructure and marketing network	Create awareness on fallow management and jhum intensification, Cultivation of both kharif and rabi vegetables, production of passion fruit, ginger, tapioca, tea on commercial scale, popularization of floriculture, handloom and handicraft, promotion of infrastructures and marketing network
2		Opangkong (s)	Chungtia, Aliba, Mangmetong	Paddy, Maize, Tapioca Cucumber, Passion fruit, Ginger, Orange	Low productivity due to non adoption of improved technology, Indiscriminate use of inorganic products in cucumber cultivation, lack of awareness on INM, lack of upgrade dairy breeds, inadequate availability of fodder, insect pest problem, lack of extension activities	Create awareness on fallow management and jhum intensification, Organic Off season cucumber cultivation, development of dairy and fodder crops, production of orange.
3		Kobulong	Mopungchuket Sungratsü	Paddy, Tapioca, Maize Passion fruit, ginger, Banana, Piggery, Poultry, Dairy, Sericulture	Low productivity due to non adoption of improved technology, lack of irrigation facilities, unavailability of HYV seeds, post harvest management problem, pest /disease problem in crops and silkworm, lack of processing unit and marketing, lack of spinning & weaving centers, lack of awareness on citronella cultivation, Inbreeding, disease and nutrition in piggery	Create awareness on fallow management and jhum intensification, To increase productivity of passion fruit, ginger and vegetables, promotion on spinning and weaving centre of sericulture, popularization of citronella cultivation, awareness on breeding programme, prevention and control of disease, scientific feeding management

4		Changtongya	Chuchuyimlang, Mongsenyimti	Paddy, Tapioca, Maize, Collocasia, banana, Orange, Pineapple Tea, piggery, Poultry, Fishery	Low productivity due to non adoption of improved technology, lack of awareness on value addition products, insect pest and disease problem, poor transportation and marketing facilities, lack of upgraded breeds and health centre	Create awareness on fallow management and jhum intensification, To increase production of banana, tapioca, orange, pineapple, development of tea, arecanut, betel vine, improvement of piggery, fishery and sericulture,
5		Mangkolemba	Chungtia Yimsen Longnak, Longpayimsen	Paddy, Maize, Tapioca, Orange, Pineapple, Arecanut, Tea, betel vine, fishery, cattle, piggery	Unavailability of HYV ( lowland paddy), Lack of knowledge on improved method of cultivation , lack of processing unit, insect pest and disease problem, lack of awareness on INM, poor skill in fishery pond management, financial constraint to take up in commercial scale, inadequate availability of ploughing bullock, swine diseases	Promotion of HYV (paddy), production of oilseed and pulses, production of orange, pineapple, arecanut, tea and fish. Breeding programme for cattle and training of draught animals, prevention & control of swine diseases
6		Longchem	Yachang (C) Aonokpo	Paddy, Tapioca, Maize, colocassia, Arecanut, betel vine, cattle, piggery	Unavailability of HYV ( lowland paddy), Lack of knowledge and awareness on improved method of cultivation on plantation crops, lack of processing unit, lack of awareness on INM, financial constraint for commercial cultivation, inadequate availability of ploughing bullock, swine diseases	Promotion of HYV (paddy), Commercial cultivation of arecanut, tea, rubber, betel vine, colocassia, orange, production of oilseeds and pulses, Breeding programme for cattle and training of draught animals, prevention & control of swine diseases

### **3. TECHNICAL ACHIEVEMENTS**

#### **3. A. Details of target and achievements of mandatory activities by KVK during 2011-12**

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	4	4	12	9	4	4	20	14
Horticulture	3	3	9	8	3	3	20	14
Plant protection	1	1	3	3	-	-	-	-
GPB	1	1	3	3	-	-	-	-
Vety & A.H	2	2	20	20	2	1	300	274

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	30	19	700	475	113	90	1500	1266
Rural youth	17	11	385	255				
Extn. Functionaries	9	6	135	90				

Seed Production (Qt.)			Planting material (Nos.)	
5			6	
Target		Achievement	Target	
			Achievement	
16.02		10.01	4000nos	
			5qlt	
			1600	
			2qlt.	

### 3.B. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	To increase production	Paddy	Low production in farmers local cultivars	Performance of paddy variety (Bhalum - 3)		Performance of new paddy variety (Bhalum 3-4)		Field day	Seed
2	Increase production	Paddy	Long duration varieties	Trial on short duration varieties		Short duration paddy varieties		Field day	seed
	To increase production and productivity	Toria	Yield gap due to lack of suitable varieties and poor adoption level	Performance of toria (TS-67) after paddy		Promotion of oilseed production	Promotion of oilseed production	Field day	Seed
3	To increase production	Groundnut	Low yield in existing varieties used by farmers	Performance trial on groundnut (ICGS -76)		Cultivation practices of groundnut		Leaflet, demonstration	seed
4	Improvement of backyard poultry	Poultry	Poor production of indigenous birds	Performance of dual purpose vanaraja birds					chick
5	Indigenous feed resources	Pigweed	High cost in feed	Estimation of yield and analysis of proximate composition				Demonstration	seed
6	Introduction of HYV	Banana	Low yield in local varieties	Cultivation of tissue culture banana, variety – G-9		Cultivation practices of tissue culture banana, variety – G-9		Demonstration, field day	Planting material





System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management		1								1
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
<b>TOTAL</b>	3	3			1	1				8

#### A.2. Abstract of the number of technologies **refined\*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production					1					1
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
<b>TOTAL</b>					1					1

\* *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*



11). Results of On Farm Trials

Title of OFT	Problem Diagnosed	Technology Assessed	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio
Performance of paddy variety (Bhalum -3)	Low production in farmers local cultivars	Bhalum -3	3	Plant height – 94cm No. of tillers - 7 length of panicle-21.8cm No. of grains per panicle-142 Yield- 22.2 qlt/ha	Better growth performance than local. Good taste. Short duration. Higher yield.	In-depth research on location specific.	1:2.2
Trial on short duration varieties	Long duration varieties	Luit, Dikow, Kolong, Kapilee	3	Plant height- 85cm No. of tillers-11.4 length of panicle-29.8cm No. of grains per panicle - 126 Yield- 24.5qlt/ha	Dikow variety gave better performance and shorter growth duration	More in-depth research on location specific is require.	1:3
Performance of toria (TS-67) after paddy	Yield gap due to lack of suitable varieties and poor adoption level	TS-67	3	Plant height- 34cm No. of branches -7 yield – 6.4qlt/ha	Late sowing can be done and more moisture tolerant. Better yield than local varieties.	Comparative research on TS series varieties	1:2.3
Performance trial on groundnut (ICGS -76)	Low yield in existing varieties used by farmers	ICGS -76	3	No. of pod/plant- 16 Yield -15.2	Higher yield compare to existing variety	More research on its oil content and location specific	1:3.3
Performance of vanaraja birds in all AESs of the district under backyard farming	Low growth performance of local birds	Vanaraja	20	Av. Weight in 8 month- 2.9kg Mortality – 57.5%(due to mortality up to 85.71% in one of the selected village due to sever preying by mongoose	Satisfied with the performance of the bird	Development of field based diagnostic kit for diagnosis of common disease and deficiencies	1:1.44
Cultivation of tissue culture banana.	Low yield in local varieties	Grand naine	3	Pl. height-6.5ft Yield parameters – on going	Non –availability of planting materials	Inadequate availability of manure & fertilizer	-

Adaptability trial in broccoli	High cost of hybrid seed	KTS-1	2	Pl.height-35cm Head wt.-350gm Yield-71q/ha	Good return, Irrigation problem	Under assured irrigation, large scale cultivation can be taken up	1:2
Pruning in tomato	Poor fruit size	Double stem pruning	3	Pl.height- 51.2 No. of flower/truss-9.78 Fruit volume-59.20cc/ml Yield -283q/ha	Better fruit size & taste Longer shelf life than local. Require skilled	Requires skilled labour for successful cultivation	1:5
Varietal trial on local maize (Mapok)	Less popular and lack of knowledge	Chungtia Mapok, Longsa Mapok, Mokochung Mapok	3	Chungtia Mapok Pl. height – 159.6 cm Av. Cobs/pl – 1 Av. Grain/cob- 312 Test weight(1000grains) – 237.5 Yield – 21 qlt/ha	The yield is low when compared to other varieties but farmers prefer it due to its good taste and has market value	To preserve the germplasm of local cultivars (Mapok). Intensive research on its proximate composition and its benefits.	1:3.5
Bioefficacy of neem oil against mustard aphid	Aphid infestation resulting in reduction of yield	Toria (TS-36)	3	Yield Treated – 8.72q/ha Control – 6.10q/ha Percent increase in yield – 42.85 %	Farmers were convinced of the new technology	Further research on eco-friendly pest control.	1:2.36

### 3.2 Achievements of Frontline Demonstrations

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2011-12 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Paddy	SRI	3	10	2.5
2	Soybean	JS-335	4	16	4
3	Toria	TS-36&38	4	12	4.5
4	Pea	Arkel	3	6	1.5
5	Tomato	Megha-1&10	3	12	1.4
6	Broccoli	Pushpa	2	6	1

\* Thematic areas as given in Table 3.1 (A1 and A2)

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rf/ Irrigated, Soiltype, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1	Paddy	Resource conservation technology	SRI	Khari f , 2011	2	1.5	6		6	Poor adoption level and more labors	RF Clay loam 325-650 msl	260	8.4	118
2	Maize	Increase production	HQPM-1	Khari f 2011	2.5	1.5	5		5	Less popular and fragmente d land holding system	RF Clay/silt loam 750-1250ms l	185	9.4	88
3	Toria	Oilseed production	TS-36&38	Rabi 2011	5	3	6		6	Due to standing paddy crop till 1 <sup>st</sup> of December	RF Clay loam 350-800msl	165	9.5	125
4	Pea	Pulse production	Arkel	Rabi 2011	3	2.5	6		6	-	RF Clay/silt loam	195	8.5	92
5	Tomato	Vegetable production	Megha tomato-1	Rabi 2011	2	1	5		5	Financial constraint	RF Clay loam 850-1200ms l	140	9.8	129
6	Broccoli	Veg. production	Pushpa	Rabi 2011	2	1	5		5	High cost of seed	RF Clay loam 640-1150ms l	190	10.2	135

## Performance of FLD

SI.No.	Crop	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Data on parameter in relation to technology demonstrated (Yield, Disease incidence, etc. as specified in FLD Programme)		Economic Impact				Technical Feedback on the Demonstrated Technology	Farmers' Reaction on specific Technologies
								Average Net Return (Profit) (Rs./ha)		B.C. Ratio			
		Demo	Local Check	Demo				Local Check					
		H	L	A		Demo	Local						
1	2	7	8	9	10	12	13						
1	Paddy	38	35.5	36.75	26.5	Pl. height -78 Effective tillers-13 No.of grains/panicle-132	Pl. height -72 Effective tillers-10 No.of grains/panicle-124	25000	14500	3.4:1	2.3:1	Good root formation More nos. of grains/panicle & tillers Withstand lodging More yield	More labour & time consuming Require skill Require irrigation facilities
2	Maize	42.1	36.5	39.3	22.5	Pl. height-195cm Av. No Of cob/pl-1.25 Av.no of grains/cob-415.15 1000 test wt.-301 gm	Pl. height-235cm Av. No Of cob/pl-1.75 Av.no of grains/cob-308 1000 test wt.-272gm	17500	10400	4:1	2.6:1	Good cob size Maximum grain filling Short duration High nutrient content	Grain taste is rough Good for animal feed Non availability of seeds Higher yield
3	Toria	5.4	5.2	5.3	4.6	Pl. hight-35cm Yield -5.4q/ha	Pl. hight-41cm Yield -4.6q/ha	14300	10700	2.4:1	2:1	More moisture tolerant. Higher yield	Can be sown late Higher yield than existing varieties Bold seed size
4	Pea	18.2	14.3	16.25	12.8	No. of pods/pl-39 Yield – 18.2q/ha	No. of pods/pl-31 Yield – 12.8q/ha	61000	34000	3:1	2.1:1	Crop rotation after paddy as rabi crop High yielding	Higher yield Require constant monitoring and watering
5	Tomato	322	266	294	189	Pl.height-50.3cm	Pl.height-52.3cm	252150	125300	4:1	2:1	Higher yield Low pest	Good fruit size Better return

						Disease incidence -5% Yield-322	Disease incidence -25% Yield-189					disease incidence Irrigation problem	
6	Broccoli	74	52	63	47	Pl.height-33cm Head wt.-362gm Yield-74q/ha	Pl.height-31.5cm Head wt.-248gm Yield-47q/ha	147000	71000	3:1	1.8:1	Advancement of planting time may improve in yield	High cost of seed Irrigation problem

**NB: Attach few good action photographs with title at the back with pencil**

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	7	11/08/11, 16/11/11, 20/12/11, 17/01/12, 22/02/12, 24/02/12/ 18/03/12	225	Farmers are willing to take up the new and improved technologies on a larger scale. But are apprehensive on sufficient availability of inputs and seeds.
2	Farmers Training	5	08/04/11, 25/05/11, 03/09/11, 28/09/11, 13/10/11	185	Provided proper platform for helping the farmers develop required skills and knowledge
3	Media coverage	5			News paper coverage, Radio talk
4	Training for extension functionaries	2	06/10/10,29/10/10	37	Facilitates update knowledge on new improved technologies

c. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

\* Field efficiency, labour saving etc.



















Dairying																						
Sheep and goat rearing																						
Quail farming																						
Piggery																						
Rabbit farming																						
Poultry production		1	1							12		13		25		12		13		25	25	
Ornamental fisheries																						
Para vets																						
Para extension workers																						
Composite fish culture																						
Freshwater prawn culture																						
Shrimp farming																						
Pearl culture																						
Cold water fisheries																						
Fish harvest and processing technology																						
Fry and fingerling rearing																						
Small scale processing																						
Post Harvest Technology		1	1							12		13		25		12		13		25	25	
Tailoring and Stitching																						
Rural Crafts																						
<b>TOTAL</b>	<b>2</b>	<b>5</b>	<b>7</b>							<b>28</b>	<b>56</b>	<b>22</b>	<b>69</b>	<b>50</b>	<b>125</b>	<b>28</b>	<b>56</b>	<b>22</b>	<b>69</b>	<b>50</b>	<b>125</b>	<b>175</b>
<b>(C) EXTENSION PERSONNEL</b>																						
Productivity enhancement in field crops		1	1							6		4		10		6		4		10	10	
Integrated Pest Management																						
Integrated Nutrient management		1	1							9		7		16		9		7		16	16	



Rejuvenation of old orchards																					
Protected cultivation technology	1		1						7		10		17		7		10		17		17
Formation and Management of SHGs																					
Group Dynamics and farmers organization																					
Information networking among farmers																					
Capacity building for ICT application	1		1						8		6		14		8		6		14		14
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																					
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>4</b>						<b>15</b>	<b>15</b>	<b>16</b>	<b>11</b>	<b>31</b>	<b>26</b>	<b>15</b>	<b>15</b>	<b>16</b>	<b>11</b>	<b>31</b>	<b>26</b>	<b>57</b>

**Note: Please furnish the details of above training programmes as Annexure in the proforma given below**



**3.4. Extension Activities (including activities of FLD programmes) (Please mention specific Extension Activity conducted by the KVK such as Field Day, Kisan Mela, Exhibition, Diagnostic Visit, etc)**

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Vaccination camp	Swine fever	Vaccination	164	46	210	-	-	-	2	-	2	166	46	212
2.	Field Day	Sri Toria Pea Tomato Broccoli	6	-	-	-	128	190	304	12	4	16	140	194	334
3.	Lectures delivered as resource persons	-	13												
	Newspaper coverage	-	3												
4.	Radio talks	-	6												
5.	Advisory Services	-	9				22	18	40				22	18	40
6.	Scientific visit to farmers field	-	9				23	32	55				23	32	50
7.	Farmers visit to KVK	-	18				118	165	283				118	165	283
8.	Diagnostic visits		5				9	6	15				9	6	15
9.	Film Show		2												
10.	Self Help Group Conveners meetings		9				54	41	95				54	41	95
11.	Group meetings		6				82	103	185				82	103	185
12.	Kisan Ghosthi		1				15	25	40				15	25	40
13.	Exhibition		2												
	Grand Total		<b>89</b>				<b>451</b>	<b>580</b>	<b>1017</b>	<b>12</b>	<b>4</b>	<b>16</b>	<b>463</b>	<b>584</b>	<b>1042</b>

**3.5 Production and supply of Technological products**

**SEED MATERIALS**

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Provided to No. of Farmers/Other Agencies
<b>CEREALS</b>					
	Paddy	SARS-1	6	6000	20
		SARS-6			
<b>OILSEEDS</b>					
	Toria	TS-36,	0.5	5000	20

		TS-38	0.5		20
<b>PULSES</b>					
		Azad	2	3000	20
	Pea	Arkel	1	2000	15
<b>VEGETABLES</b>					
	Tomato	Megha-1	0.01	17000/-	30
<b>FLOWER CROPS</b>					
<b>OTHERS (Specify)</b>					

### SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers/Other Agencies
1	CEREALS	6	6500	20
2	OILSEEDS	1	5000	40
3	PULSES	3	5000	35
4	VEGETABLES	0.01	17,000	30
5	FLOWER CROPS			
6	OTHERS			
	<b>TOTAL</b>	<b>10.01</b>	<b>33,500</b>	<b>125</b>

### PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
<b>FRUITS</b>					
	<b>Banana</b>	<b>Grand naine</b>	<b>500</b>	<b>6000</b>	<b>15</b>
<b>SPICES</b>	<b>Turmeric</b>	<b>Megha-1</b>	<b>200kg</b>	<b>2000</b>	<b>10</b>
<b>VEGETABLES</b>					

<b>FOREST SPECIES</b>					
	<b>Alder</b>	<b>Local</b>	<b>600</b>	<b>3000</b>	<b>15</b>
	<b>Agar</b>	<b>Local</b>	<b>500</b>	<b>2500</b>	<b>5</b>
<b>ORNAMENTAL CROPS</b>					
<b>PLANTATION CROPS</b>					
<b>Others (specify)</b>					

#### SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS	1500	8000	15
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES	1100	5500	5
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS			
7	OTHERS			
	<b>TOTAL</b>	<b>2600</b>	<b>13500</b>	<b>20</b>

#### BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
<b>BIOAGENTS</b>						

<b>BIOFERTILIZERS</b>						
1						
2						
3						
4						
<b>BIO PESTICIDES</b>						
1						
2						
Others	<b>Vermi compost</b>			<b>550</b>	<b>5500</b>	<b>20</b>

<b>SUMMARY</b>
----------------

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
4	<b>Others</b>			<b>550</b>	<b>5500</b>	<b>20</b>

**LIVESTOCK :NA**

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
<b>Cattle</b>						
<b>SHEEP AND GOAT</b>						

<b>POULTRY</b>						
<b>FISHERIES</b>						
<b>Others (Specify)</b>						

<b>SUMMARY</b>
----------------

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE					
2	SHEEP & GOAT					
3	POULTRY					
4	FISHERIES					
5	OTHERS					
	<b>TOTAL</b>					

### 3.6. Literature Developed/Published (with full title, author & reference)

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

(B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers			
News letter (annual)	KVK Mokokchung Newsleter	KVK Mokokchung	400
Total			
Technical reports			
Popular articles			
Leaflets/folders	1. Cultivation practices of cucumber 2. Cultivation practices of Toria 3. Cultivation practices of pea 4. IPM on rapeseed and mustard 5. High density planting in banana 6. Goatery Management	KVK Mokokchung	1200
Total	6		
<b>GrandTOTAL</b>	<b>7</b>		<b>1600</b>

(C) Details of Electronic Media Produced:NA

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

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs)

3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

3.10 Indicate the specific training need analysis tools/methodology followed for

- Identification of courses for farmers/farm women
- Rural Youth
- Inservice personnel



### 3.11 Field activities

- i. Number of villages adopted :4
- ii. No. of farm families selected: 20
- iii. No. of survey/PRA conducted: 4

### 3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Installation process

1. Year of establishment : 2011
2. List of equipments purchased with amount :

Sl. No	Name of the Equipment	Qty.	Cost
1	Visiscan spectrophotometer	1	81,200
2	Digital Flame Photometer	1	54,875
3	Digital P.H meter with electrode	1	17,100
4	Digital conductivity meter with cell	1	16,845
5	Physical balance	2	5,100
6	Chemical balance	1	3,125
7	VAT 13.5%		23,695
Total			<b>2,01,903</b>

3. Details of samples analyzed so far : On process

Details	No. of Samples	No. of Farmers	No. of Villages	Amount realized
Soil Samples				
Water Samples				
Plant Samples				
Petiole Samples				
Total				

## 4.0 IMPACT

### 4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
1. Cultivation practices of Toria (TS-36 & 38)		45	15,000	18800/ha
2. Cultivation practices of pea (Azad & Arkel)		42	19,700	21200/ha
3. Cultivation practices on paddy (SARS 1&2)		60	9,000	14040/ha
4. Cultivation practices on HYV tomato (Megha-1)		63	20,000	27,000/ha

**NB:** Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

### 4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

### 4.3 Details of impact analysis of KVK activities carried out during the reporting period

## 5.0 LINKAGES

### 5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
State Agricultural Research Station (SARS) Yisemyong, AICRIP	Joint implementation in conducting training, demonstration, meeting, trials etc.
DAO, DHO, DVO, DSCO, DFO,LRD in the district	Conducting training, demonstration programmes
ICAR, Jharnapani, Nagaland University	Consultation, meeting and exchange of technologies
AIR Doordashan Mokokchung	Technology dissemination through broadcasting (AIR )
NABARD, NSCB, SBI	Joint implementation in forming farmers ' clubs

### 5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies: NA

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

### 5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district  Yes/No

S. No.	Programme	Nature of linkage	Remarks
1	Training, trial & Demonstration, Exhibition	Resource person and programme Planning, implementation and monitoring	Actively participating in programme implementation

### 5.4 Give details of programmes implemented under National Horticultural Mission :NA

S. No.	Programme	Nature of linkage	Constraints if any

### 5.5 Nature of linkage with National Fisheries Development Board : NA

S. No.	Programme	Nature of linkage	Remarks

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

### 6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Vermicompost	2008	20sqm	<i>Esenia foeteda</i>	Compost	760kg/yr	2200	-	-
2	Banana fiber extraction	2010	500sqm	-	Fiber	On going	-	-	-

### 6.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
a) Upland paddy	25.03.11	8.09.11	0.15	SARS-1& 2 HQPM-1	Grain	3.4	2000	4080	Good yield
b) Maize	28.03.11	17- 20.08.11	0.05		Green cobs	-	1200	900	Green cobs are not prefer much by the farmers
Pulses									
a) Pea	18/10/11	20 jan- 10 feb	0.1	Arkel	Pod	0.72	850	1080	-
b) Soybean	22/06/11	2012 20/12/11	0.002	Indira soya9	Pod	0.32	<b>650</b>	1120	-
Oilseeds									
Toria	11/10/11	17/01/12	0.02	TS-36 & 38	Seed	0.42	900	1650	-
Spices & Plantation crops									
Turmeric	28/05/10	6- 8.02.12	0.0585	Megha -1	Rhizome	7	1500	7000	Good yield
Ginger	04.04.11	15.01.12	0.003	Local red ginger	Rhizome	3.5	1500	3500	Good yield
Vegetables									
Cabbage	21.09.11	12.01.12	0.005	Snow ball	Head	0.35	650	525	
Tomato	28/10/11	-	0.04	Megha-1&10	Fruit	On going	650	-	Yield is satisfactory
Broccoli	21.10.11	-	0.02	KTS-1	Seed	Ongoing	750	-	-
Others (specify)									

### 6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Vermi compost	760kg	2200	7600	Use in farm management

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	

**6.5 Rainwater Harvesting****Training programmes conducted by using Rainwater Harvesting Demonstration Unit:NA**

Date	Title of the training course	Client (PF/R/Y/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total

**6.5 Utilization of hostel facilities (Month Wise):NA**

Accommodation available (No. of beds) :

Months	Title of the training course/Purpose of stay	Duration of Training	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
Total					
Grand total					

(Duration of the training course X No. of trainees)=Trainee days

**7. FINANCIAL PERFORMANCE****7.1 Details of KVK Bank accounts**

Bank account	Name of the bank	Location	Account Number
With Host Institute	SBI	Lerie , Kohima	01000050059
With KVK	SBI	Sangtemla ward, Mokokchung	11361013166

**7.2 Utilization of funds under FLD on Maize (Rs. In Lakhs):NA**

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31 <sup>st</sup> March, 2012
	2009-10	2010-11	2009-10	2010-11	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

### 7.3 Utilization of KVK funds during the year 2011 -12

S. NO	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
<b>A. Recurring Contingencies</b>				
1	<b>Pay &amp; Allowances</b>	58.40	6297628	6297628
2	<b>Traveling allowances</b>	1.5	1	1
3	<b>Contingencies</b>	<b>8.00</b>	<b>3.00</b>	<b>3.00</b>
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
<b>TOTAL (A)</b>				
<b>B. Non-Recurring Contingencies</b>				
1	<b>Works</b>	10	3.5	3.5
2	<b>Equipments including SWTL &amp; Furniture</b>			
3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)			
4	<b>Library</b> (Purchase of assets like books & journals)	0.10	-	-
<b>TOTAL (B)</b>				
<b>C. REVOLVING FUND</b>				
<b>GRAND TOTAL (A+B+C)</b>		<b>78.00</b>	<b>70,47,628</b>	<b>70,47,628</b>

### 7.4 Status of revolving fund (Rs. in lakhs) for last three years

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year
April 2009 to March 2010	1,45,000	25,000	5000	1,65,000
April 2010 to March 2011	1,65,000	20,000	12,000	1,73,000
April 2011 to March 2012	1,73,000	22,175	14,500	1,80,675

**8.0 Please include information which has not been reflected above (write in detail).**

**8.1 Constraints**

**(a) Administrative**

1. Need of a full time Programme Coordinator
2. Need for more supporting staffs

**(b) Financial**

1. Enhancing the contingency
2. Separate funds for OFT, FLD and trainings
3. Release of funds directly to respective KVK account

**(c) Technical**

1. More demonstration units
2. Need of VSAT and power generator
3. Requirement of latest field equipments and instruments

Programme Coordinator  
KVK, Mokokchung