

PROFORMA FOR ANNUAL REPORT OF KVKS, 2014-15

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
KVK Yisemyong Post Box No-23 Mokokchung Nagaland	0369-2225121	0369-2225121	kvkmokokchung@gmail.com

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	agrkvk@yahoo.com

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Pijush Kanti Biswas	Aoyimkum Dimapur	9402343069	drpijushpckvk@g mail.com

1.4. Year of sanction: 2003

1.5. Staff Position (As on 31st March, 2015)

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.Pijush Kanti Biswas	Programme Coordinator	Horticulture	31230	23230+ 8000	15/4/2013	Temporary	Gen.
2	Subject Matter Specialist	Renbomo Ngullie	SMS (Horticulture)	Horticulture	26620	21220+ 5400	24.05.06	Temporary	ST
3	Subject Matter Specialist	Dr.Ruopfuselhuo Kehie	SMS (Entomology)	Entomology	25840	20440+ 5400	15.02.07	Temporary	ST
4	Subject Matter Specialist	Dr. Rongsensusang	SMS (Vety. &AH)	Vety & AH	33275	21220+ 5400	24.05.06	Temporary	ST
5	Subject Matter Specialist	Samuel Sangtam	SMS (Agronomy)	Agronomy	26620	21220+ 5400	24.05.06	Temporary	ST
6	Subject Matter Specialist	Bendangjungla.I	SMS (PB &G)	PB &G	26620	21220+ 5400	24.05.06	Temporary	ST
7	Subject Matter Specialist	Royuso Nakro	SMS (Extension)	Agri. Extension	25840	20440+ 5400	13.11.07	Temporary	ST
8	Programme Assistant	Moainla	Programme Asstt.	Horticulture	18320	14120 + 4200	24.05.06	Temporary	ST
9	Computer Programmer	I.Tangitla	Programme Asstt (Computer)		18320	14120 + 4200	24.05.06	Temporary	ST
10	Farm Manager	Ilika v achumi	Farm manager	Horticulture	17780	13580+ 4200	19.02.2007	Temporary	ST
11	Accountant / Superintendent	Meyatula	Office Supt-cum-Accountant		18320	14120+ 4200	01.06.06	Temporary	ST
12	Stenographer	Imosangla	Jr. Steno-cum-Computer Operator		12500	10120 + 2400	01.06.06	Temporary	ST
13	Driver	Supongmeren	Driver		9640	7740 + 1900	01.06.06	Temporary	ST
14	Driver	Jongpongyanger	Driver		8550	6650 + 1900	01.03.10	Temporary	ST
15	Supporting staff	Imkonglemla	Peon		7710	6410 + 1300	01.06.06	Temporary	ST
16	Supporting staff	Aotoshi	Chowkidar		6830	5530+ 1300	01.03.10	Temporary	ST
17	SRF	Shillunokdang	SRF	R.D	Rs.16,000 (Consolidated)		01.11.14	Temporary	ST

- 1.6. a. Total land with KVK (in ha) :23.9 ha
 b. Total cultivable land with KVK (in ha): 18 ha
 c. Total cultivated land (in ha): 6.5 ha

S. No.	Item	Area (ha)
1	Under Buildings (Administrative building+ Farmers' Hostel+ Staff Quarters)	1
2.	Under Demonstration Units	1
3.	Under Crops (Cereals, pulses, oilseeds etc.)	1.5
4.	Under vegetables	3 (Instructional Farm)
5.	Orchard/Agro-forestry	2 ha
6.	Others (specify)	-

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	Completed
4.	Demonstration Units (2)	ICAR, Host & ATMA	2008 & 2010	40	24,55,500 lakh	2008 & 2013	-	Completed and going
5	Fencing	ICAR	Ongoing	7500	3.5	2011	-	Completed
		ICAR	30.09.11	800mtr	17.0 lakhs	2011	-	Completed

B) Vehicles

Type of vehicle	Regd. No.	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Marshall	NL-02-C-1212	2004	5.4 lakhs	1,83,888	Need replacement

C) Equipments & AV aids

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

1.8. A). Details SAC meeting* conducted in the year 2014-15

Sl. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken on last SAC recommendation
1.	21/05/2014	1. Nungsang Research officer SARS 2. Mar Jr. Plant Breeder SARS 3. Dr. Temjenmengla DHO Mokokchung 4. Sanen Magh DAO 5. Akala, Anouncer AIR Mokokchung 6. Imsunaro NABARD 7. Dr. Imsen, VAS 8. Anik, AO, Mokokchung 9. Yashi Jamir, DFO	Approval of all the publications Presentation of activities report and action plan	All the recommendations were refined and finalized for implementation of the programmes

		10. Lipok jr., Asst. agronomy, DAO, Mkg 11. Ngangshi, DSO(Seri) 12. Imkongtoshi DSCO 13. T. Wathy Jamir, Junior Engineer 14. Nuchet DPD, ATMA, Mkg 15. Temsukaba LRD 16. Yarba, Sanpang Farmers Cooperative Society, Longkhum 16. All KVK staffs		
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*** Attach a copy of SAC proceedings along with list of participants**

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprises
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)

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

2.3 Soil type/s

Sl. 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

Sl. No	Crop	Area (ha)	Production (ton)	Productivity (Qtl /ha)
1.	Orange	1739	59126	340
2.	Banana	1155	71610	620
3.	Litchi	970	24250	250
4.	Pineapple	820	13284	162
5.	Tomato	38	9880	2600
6.	Chilli	76	5099.6	671

2.5. Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
April	172.3	23.65	18.7	70.2
May	267.35	24.3	19.6	77.55
June	371.25	29.76	21.1	87.75
July	49.25	27.19	20.95	88.63
August	139	27.52	20.49	86.87
September	154.75	27.54	20.09	86.03
October	154.25	24.6	16.95	85.37

November	1.75	21.86	11.88	77.74
December	4.25	18.1	9.10	80.58
January	24.25	18.89	8.7	90.32
February	11	20.01	10.07	70.76
March	8.5	27.3	13.60	65.67

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

2.7.

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	620	502MT	3lit/day lactation period of 270 days
<i>Indigenous</i>	265	1	120kg in 12 months
Buffalo	-	-	-
Sheep			
Crossbred	-	-	-
<i>Indigenous</i>	-	-	-
Goats	381	972 kg	10-11 kg per year
Pigs			
<i>Crossbred</i>	21900	1687.2 MT	100 kg in 12 months
<i>Indigenous</i>	-	-	-
Rabbits	-	-	-
Poultry			
Hens	-	-	-
<i>Desi</i>	156750	83.8MT	1 Kg in 6months
<i>Improved</i>	18000	10MT	1.5 kg in one month
Ducks	-	-	-
Turkey and others	-	-	-

Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>	408.50 ha	1534 MT	2581.5 kg/ha
Prawn			
Scampi			
Shrimp			

2.8 Details of Operational area / Villages (2014-15)

Sl. No.	Taluk/ Eleka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1		Ongpangkong (N)	Longkhum, Longmisa, Chuchuyi mpang	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	Sungratsu, Mopungchuket	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	Dibuya, 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	Watiyim ,Wameken 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	Saring, Nokpu	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 2014-15

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	2	4	10	11	4	6	47	47
Horticulture	7	7	13	15	7	7	22	24
Plants Protection	3	3	18	17	2	2	14	14
Genetics & Plant Breeding	2	1	3	3	4	4	40	31
Vety.& A.H.	2	1	5	5	3	3	26	26
Extension	2	1	90	90	2	1	90	90
Total								

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	40	45	1045	1170	150	155	1800	1998
Rural youth	10	11	250	280	40	45	350	415
Extn. Functionaries	6	7	150	162	15	13	75	65
Total	56	63	1445	1612	205	213	2225	2478
Seed Production (ton.)				Planting material (Nos. in lakh)				
5				6				
Target		Achievement		Target		Achievement		
1.2		1.53		0.10		0.13		

3. B. Abstract of interventions undertaken during 2014-15

Sl. 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	Vegetable production	Bittergourd	Low yield in local varieties	Varietal evaluation of bitter gourd	-	-		Field day	Seed
2	Popularization of bush squash	Bush Squash	Lack of knowledge on Bush Squash cultivation	Performance trial on Bush squash	-	-			Seed
3	Promotion of king chilli	King Chilli	Low yield under open condition	Performance of King chilli under different growing conditions	-	-		Demonstration	Seed, poly house materials

4	Vegetable production	Tomato	Poor yield in local varieties	Performance trial on Tomato	-	-			Seed
5	Vegetable production	Cucumber	Low yield in local varieties	Varietal evaluation of cucumber	-	-		Field day	Seed
6	Popularization of ridgegourd	Ridgegourd	Lack of knowledge on ridgegourd cultivation	Varietal evaluation of Ridgegourd	-	-			Seed
7	Popularization of capsicum	Capsicum	High weed infestation and poor growth under open field condition	Effect of plastic mulching on yield of capsicum	-	Plastic mulching in capsicum production		Training and Demonstration	Seed, Mulching material
8	Vegetable production	Cabbage	Use of unsuitable varieties	-	Cabbage production	-			Seed
9	Vegetable production	Chilli	Use of unsuitable varieties	-	Commercial production of chilli	-			Seed
10	Promotion of okra	Okra	Low yield in local cultivars	-	Cultivation of okra	-			Seed
11	Tuber crop production	Taro	Low yield in local cultivars	-	Cultivation of HYV of taro	-		Field day	Planting material
12	Vegetable production	Tomato	Low yield in local cultivars	-	Commercial production of tomato	-			Seed
13	Vegetable production	Tomato	Use of low yielding varieties	-	Commercial production of tomato	Package of practices of HYV of tomato		Training	Seed
14	Production of low volume high value crop	Broccoli	Use of unsuitable varieties	-	Cultivation of high value crop	-		Field day	Seed
15	Crop production and management	Soybean	Low production	Evaluation on soybean				Field days, field visit	Seeds

16	Crop production and management	Upland paddy (SARS-1)	Low production		Promotion of high yielding upland paddy			Demonstration, field days	Seeds
17	Crop production and management	Maize RCM-76	Low production		Package and practice of Maize			Demonstration, field days	Seeds
18	Crop production and management	Tomato (Rocky)	Low production due to use of local varieties		Package and practice of tomato			Demonstration, field days	Seeds
19	Crop production and management	Pea (Azad)	Low production		Package and practice of pea			Demonstration, field days	Seeds
20	IPM	Groundnut	Root grub	Management of root grub (<i>Holotrachia consanquina</i>)		IPM for Sustainable Agriculture		-Method demonstration -Diagnostic visit -Field Visit	Supply of Seeds, & Insecticides
21	Bio-control	Soya bean	Defoliators	Biological control of defoliators in Soyabean.		Biological Control of Insect Pests & Diseases for Organic farming		Method demonstration -Diagnostic visit -Field Visit	Supply of Seeds
22	IPM	Potato	White Grub	Management of White Grub (<i>Holotricha spp.</i>) in Potato		Hand-on Training for Soil Application of Insecticides against Soil Insect Pest		Method demonstration -Diagnostic visit -Field Visit	Supply of Seeds
23	Product evaluation	Paddy	Heavy incidence of Yellow Stem Borer and Leaf Folder		Effect of Bio-intensive Module on the incidence of Yellow Stem Borer and Leaf Folder on Rice	Bio-intensive Integrated Pest management in Paddy		Method demonstration -Diagnostic visit -Field Visit	Supply of Seeds, & Tricho-cards

A.1 Abstract of the number of technologies **assessed*** in respect of crops/enterprises

A.1 Abstract of the number of technologies **assessed*** in respect of crops/enterprises

[illegible]

* Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro farming situation.

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

[illegible]

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										
TOTAL										

A.3. Abstract of the number of technologies **assessed** in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management					1			1
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

A.4. Abstract on the number of technologies **refined** in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

A.5. Results of On Farm Testing

Sl. No.	Title of OFT	Problem Diagnosed	Name of Technology Assessed	Crop/Cropping system/ Enterprise	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 (if applicable)
1	Varietal evaluation of bitter gourd	Low yield in local varieties	Prachi, Bipasa, K-Long, Palee, Local	Bittergourd	2	Varieties *FL FD FW Yld Prachi: 27.8 6.0 173 9.23 Bipasa: 22.5 5.9 201 13.4 K-Long: 18.3 4.0 115 5.11 Palee: 25.8 6.58 212.8 16.27 Local: 12.9 3.7 68 2.9			--
2	Performance trial on Bush squash	Lack of knowledge on Bush Squash cultivation	Patty Pan	Bush Squash	2	*PH FD FW Yld 43 19 980 240.1	Good cooking quality and taste		1.2.1
3	Performance of King chilli under different growing conditions	Low yield under open condition	Local king chilli	King chilli	2	Conditions *PH FD FW Yld Polyhouse: 67.33 3.53 6.83 5.58 Nethouse: 53.33 2.93 5.6 3.97 Open: 38.33 2.53 4.97 2.99		Expand area for better production	--
4	Performance trial on Tomato	Poor yield in local varieties	Chiranjevi	Tomato	2	*PH FD FW Yld 56.47 4.37 52.3 31.2	Fruit size yield are very good	Increase area for commercial production	1.3.2
5	Varietal evaluation of cucumber	Low yield in local varieties	Alisha, Susoma, Sheetal, Welcome 494, Local	Cucumber	3	Varieties * FL FD FW Yld Alisha: 29.8 6.58 528 22.52 Susoma: 23.8 6.12 454 18.16	Quality of Alisha better than other varieties		--

						Sheetal: 19.5 6.7 336 11.95 Welcome: 20.8 6.88 459 18.36 Local: 16.2 4.42 208 6.47			
6	Varietal evaluation of Ridgegourd	Lack of knowledge on ridgegourd cultivation	Preeti, US 6001, Swati	Ridgegourd	2	Varieties *FL FD FW Yld Preeti: 24.6 155 6.47 US 6001: 43.4 310 19.29 Swati: 34.8 228 11.75			--
7	Effect of plastic mulching on yield of capsicum	High weed infestation and poor growth under open field condition	Swarna	Capsicum	2	*PH FL FD FW Yld 44.67 10.94 8.13 122.84 27.1	Saves labour in irrigation and weeding.		1:2.7
8	Evaluation on soybean	Low production	Ongpangzungken JS-335	Monocropping	3	JS-335 No. of pods/plant = 40 No. of Seeds/plant=3.8 Yield (kg/ha)= 799 Ongpangzungken No. of pods/plant = 38 No. of Seeds/plant=3.5 Yield (kg/ha)= 786	Though the JS-335 yields more the farmers prefer the local varieties for it hairy nature leading to less infestation.	More research on breeding can be done for desirable traits.	
9	Early Weaning to decrease Farrowing interval in Pigs	Late weaning resulting in increased farrowing interval	Early weaning to decrease farrowing interval	Piggery	4	Farrowing interval (existing practice of weaning at 60 days)-1.65 to 1.7/year Farrowing interval (Early weaning at 30 days) -2.13 to 2.19/year – After first farrowing subsequent farrowing interval under observation	Satisfied and is willing adopt the practice	-	-
10	Management of root grub (<i>Holotrac</i>)	Root grub	Carbofuran 1.5 kg ai/ha	Mono-cropping	1	Incidence Percentage : Treated Plot (T_1) : i.30 DAS – < 5% ii.45 DAS – 5-8%	Yield/pant was enhance as there were less	Application of Carbofuran 1.5 kg ai/ha can check the	1.45 : 1

	<i>hial consanguina</i>) in Groundnut					iii. 60 DAS –10 % <u>Local Check(T₀)</u> : i.30 DAS – 8-10% ii.45 DAS – 12-15% iii.60 DAS – 35%	infestation of the grub compared to the Local check	infestation of root grub in groundnut.	
11	Biological control of defoliators in Soyabean.	Defoliators	<i>Beauveria bassiana</i> / Bt based microbial insecticides @ 1 kg/ha.	Mono-cropping	1	Incidence Percentage : <u>Treated Plot (T₁)</u> : i.30 DAS – < 5% ii.40 DAS – 8 -10% iii. 50 DAS –15% (Approx.) <u>Local Check (T₀)</u> : i.30 DAS – 8% ii.40 DAS – 12-15% iii.50 DAS – 25-30%	Effectively managed the defoliators.	A cost effective tactics, and free from environmental pollution.	1.56:1
12	Management of White Grub (<i>Holotricha spp.</i>) in Potato	White Grub	-Deep ploughing -Spraying of host plant with Chlorpyrifos 0.05% -Application of Phorate 10 G @ 20kg/ha at the time of earthing up	Mono-cropping	3	Incidence Percentage : <u>Treated Plot (T₁)</u> : i.30 DAP – 2% ii.40 DAP – 5% iii. 50 DAP –15% <u>Local Check (T₀)</u> : i.30 DAP – 10% ii.40 DAP – 12-15% iii.50 DAP – 25%	Marketable tuber yield is enhanced.	Deep ploughing during Autumn minimized the population build up of white grubs	1.68 : 1
13	Varietal trial on hybrid paddy	Use of age old local cultivars	PAC-835, PAC-805, PAC-807, PAC-837	Lowland paddy	3	PAC-835 Pt.ht-125cm Panicle length-27cm Eff. tiller- 8.6 Test wt-30gm Yield - 62qt/ha	Higher yield but non availability of seeds and require more inputs	-	1.8:1
14	Varietal evaluation on Kidney beans (Local cultivars)	Products is high demand but cultivation is less popular among farmers of the district	Tuensang local, Shye shan Rash -I, , Shye shan Rash -II, , Shye shan Rash -III, , Shye shan Rash -IV, Senzozu	Kidney bean (Local)	2	<u>Tuensang local</u> No. of pods/pl - 15nos Yield - 7.8 qt/ha	High yielding	Research on high yielding local cultivars according to location specific	2.8:1

15	Varietal evaluation on French beans	Use of low yielding local varieties	Super falconi, Don, Vaishmave-264 and selection -9	French bean	3	<u>Super falconi</u> Plant height- 37cm Pod length- 12-14 cm Yield- 112 q/ha(green pod)	Short duration, tender pods and better yield.	-	3.4:1
16	Performance trial on cowpea	Cultivation is less popular among farmers of the district	Bali-265, TJ Maharaja, B.Sundari Bangla	Cowpea	3	<u>TJ Maharaja</u> Pod length - 32 cm No. of picking- 7nos. Yield- 10.5q/ha(green pods)	Better pod length, yielding and tender	-	3.1:1

*Field crops – ton/ha, * for horticultural crops -= kg/t/ha, * milk and meat – litres or kg/animal, * for mushroom and vermi compost kg/unit area.

** Give details of the technology assessed or refined and farmer's practice

3.2 Achievements of Frontline Demonstrations during 2014-15

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

List of technologies demonstrated during previous year and popularized during 2014-15 and recommended for large scale adoption in the district

Sl. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Tomato	Variety Rocky	2	5	2.5
2	Toria	TS-38	4	16	8
3	Soybean	JS-335	3	12	3

- b. Details of FLDs conducted 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 (Rainfed/ Irrigated, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1.	Cabbage	Vegetable production	Rareball	Rabi 2014	3	2.5	4		4	-	Rainfed	-	-	-
2.	Chilli	Vegetable production	Pusa Jwala	Kharif 2014	2	2	3		3	-	Rainfed	-	-	-
3	Okra	Vegetable production	Nilima	Kharif 2014	2	1.5	2		2	-	Rainfed	-	-	-
4	Taro	Vegetable production	Muktakeshi	Kharif 2014	3	3.5	5		5	-	Rainfed	-	-	-
5	Upland paddy	Crop production and management	SARS-1	Kharif	2	2	9		9	-	Rainfed	-	-	-
6	Maize	Crop production and management	RCM-76	Kharif	2.5	2.5	9		9	-	Rainfed	-	-	-
7	Tomato	Crop production and management	Rocky	Rabi	2	1	4		4	Lack of irrigation	Rainfed	-	-	-
8	Pea	Crop production and management	Azad	Rabi	4	2.5	9		9	Lack of irrigation	Rainfed	-	-	-
9	Paddy	IPM	Soaking of seeds	Kharif,	2	2	6	-	6	-	-Irrigated,	1.95	10.2	11.2

			in 0.5% solution of Neemcel (Azadirachtin 10000ppm) for 8 hrs + Judicious use of NPK @ 60: 40: 30 kg/ha + foliar spray with Neemcel @ 750 ml/ha at 20 DAT + Release of <i>Trichogramma chilonis</i> @ 50,000 eggs/ha/weeks for two weeks starting from 30 DAT + spray with Neemcel @ 750 ml/ha at panicle initiation stage	2014							-Sandy Loam			
10	Pea	IPM	Carbofuran @ 30 kg/ha in furrows at the time of sowing Spraying of Dimethoate @ 0.03% or 0.1% malathion to reduce the attack.	Rabi, 2014-15	2	2.25	8	-	8	Dry spell during the cropping period	-Rainfed -Clay Sandy Loam	2.2	10.3	12.5
11	Paddy	Increase in production and productivity	SRI	Kharif, 2014	-	1.5	6	-	6	-	Rainfed, Silt loam, 450-800msl	-	9.5 kg/ha	135 kg/ha
12	Maize	Seed production	RCM -76	Kharif 2014	5	2.5	5	-	5	Delayed on seed	Rainfed, siltloam,	-	8.6 kg/ha	132 kg/ha

										availability	800-1200msl			
13	Toria	Seed production	TS-36	Rabi 2014	2	1	4	-	4	Lack of irrigation facilities	Rainfed, silt loam, 450-650msl	-	9.6kg/ha	152 kg/ha
14	Pea	Increase production and productivity	Arkel	Rabi 2014	2	1	4	-	4	Lack of irrigation facilities	Rainfed, silt loam, 450-650msl	-	8.2kg/ha	140 kg/ha

c. Performance of FLD on Crops

Sl. No.	Crop	Thematic area	Area (ha.)	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Data on parameters other than yield, e.g., disease incidence, pest incidence etc.		Econ. of demo. (Rs./ha.)				Econ. of check (Rs./Ha.)			
				Demo.	Check		H*	L*			GC**	GR**	NR**	BCR* *	GC	GR	NR	BCR
									Demo	Local								
1	Cabbage	Vegetable production	2.5	125	109	12.8	131	120	-	-	60500	150000	89500	1:2.5	59800	109300	49500	1:1.8
2	Chilli	Vegetable production	2.0	155	132	14.84	162	148	-	-	72300	232500	160200	1:3.2	71950	142000	70050	1:1.9
3	Okra	Vegetable production	1.5	137	120	12.41	145	129	-	-	57800	137000	79200	1:2.3	57000	90800	33800	1:1.5
4	Taro	Vegetable production	3.5	210	194	7.62	224	197	-	-	78500	255000	176500	1:3.2	77900	167300	89400	1:2.1
5	Upland paddy	Crop production	2	32.5	26.95	21	33.2	31.75	Plant height	Plant height	30000	48750	18750	1.63:1	29000	40425	11425	1.40:1

		n and managem ent							(cm)= 175.6 Length of panicle(cm) = 28.75 No. of grains /panicle = 296 Yield (qt/ha)= 36.5	(cm)= 128.4 Length of panicle(cm) = 21.6 No. of grains /panicle = 296 Yield (qt/ha)= 28.95								
6	Maize	Crop productio n and managem ent	2.5	34.5	26.65	30	36.21	32.79	No. of cobs/pla nt= 2.2 No. of grains /cob= 453.8 Yield (qt/ha)= 34.5	No. of cobs/pla nt= 1.85 No. of grains /cob= 308 Yield (qt/ha)= 22.5	2000 0	41400	21400	2.07 :1	18000	31980	13980	1.78:1
7	Tomat o	Crop productio n and managem ent	1	340	210	62	350	330	Weigh of fruit (gm) =50.61 Yield (qt/ha)= 340	Weigh of fruit (gm) = Yield (qt/ha)= 210	7000 0	34000 0	27000 0	4.8: 1	60000	21000 0	15000 0	3.5:1
8	Pea	Crop productio n and managem ent	2.5	11.1	8.8	27	12.43	9.96	Av. No of pods/pla nt=33.6 Av. No of	Av. No of pods/pla nt= Av. No of	1500 0	33300	18300	2.2: 1	14000	26400	12400	1.8:1

									seeds/pl ant=7.8 Yield (qt/ha)= 11.1	seeds/pl ant=6.5 Yield (qt/ha)= 8.8								
9	Paddy	IPM	2	29.9	25.3	18.1%	32.1	27.7	<u>Mean</u> <u>DH</u> <u>/WH :</u> 30 DAT -1.14 45 DAT -2.44 60 DAT – 1.76 <u>Leaf</u> <u>folder</u> <u>Incidence :</u> 30 DAT -2.86 45 DAT -3.44 60 DAT - 1.5	<u>Mean</u> <u>DH/WH</u> <u>:</u> 30 DAT -2.34 45DAT -3.34 60 DAT -2.56 <u>Leaf</u> <u>folder</u> <u>Incidence :</u> 30 DAT -4.61 45 DAT -5.78 60 DAT -3.77	28,85 0	44,900	16,050	1.56 : 1	26,960	40,180	13,220	1.49 : 1
10	Pea	IPM	2.25	10.6	8.5	24.7%	11.5	9.7	<u>Incidence</u> <u>Percentage :</u> 30 DAS - 5% 45 DAT -10% 60 DAT -20%	<u>Incidence</u> <u>Percentage :</u> 30 DAS -15% 45 DAS -25% 60 DAS– 35%	17,29 0	31,500	14,210	1.82 :1	15,960	28,600	12,640	1.79:1
11	Paddy	Increase in productio	1.5	31.05	26.9	15.43	32	30.1	-	-	1550 0	20230	4730	1.3: 1	14800	18830	4030	1.2:1

		n and productivity																
12	Maize	Seed production	2.5	30	20.5	46.35	31	29	5% stem borer infestation	-	22500	45000	22500	2:1	16500	30750	14250	1.87:1
13	Toria	Seed production	1	5.8	4.1	41.47	6.2	5.4	15% aphids infestation	20% aphids infestation	10500	29000	18500	2.77:1	9500	20500	11000	2.16:1
14	Pea	Increase production and productivity	1	9.45	8.1	16.67	9.8	9.1			15000	42525	27525	2.8:1	14000	36450	22450	2.6:1

- H-Highest recorded yield, L- Lowest recorded yield

** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio

Produce Sale Price must be as per MSP or Registered Marketing Society

Pl. apply the formula: Net Return= Gross Return-Gross Cost, BCR= GR/GC

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

d. Extension and Training activities under FLD on Crops

Sl.No.	Activity	No. of activities organised	Date	Number of participants			Remarks
				Gen	SC/ST	Total	
1	Field days	7	04.07.14 28.08.14 14.11.14 19.9.14, 7.10.14 07/08/14, 22/12/14	4	131	135	Post harvest management and seed conservation technique was imparted among the farmers. Farmers stored their seeds for further multiplication.

2	Farmers Training	6	07.05.14 23.7.14 & 25.10.14 04/04/14, 07/05/14, 15/10/14		168	168	Farmers were imparted knowledge on maize, SRI and rabi crops cultivation practices.
3	Media coverage	2					
4	Training for extension functionaries						
5	Any other (Pl. specify) i. Method demonstration	1	9.8.14	-	13	13	-
	Total						

e. **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.

(ii) **Livestock Enterprises**

iv) Livestock Enterprises																				
Sl. No.	Enterprise/ Category (e.g., Dairy, Poultry etc.)	Thematic area	Name of Technology	No. of farmers	No. of units	No. of animals, poultry birds etc.	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
							Demo	Check		GC **	GR **	N R* *	BC R* *	GC	GR	NR	BC R			
1	Poultry	Backyard poultry improvement	Vanaraja	11	11	150	Body weight in 6 months 2.6-	Body weight in 6 months 1.1-	113-136% increase			3150	5778	2628	1.8	2100	2960	860	1.4	

		nt					3.2 Kg (2.9 kg Avg) Morta lity 20%	1.5 Kg (1.3 kg Avg) Morta lity 10%	10% more morta lity than check											
2	Goat	Healt h care	Strategi c dewor ming of Goats	10	10	28	Body weigh t 18- 22 Kg (20 Kg Avg.)	Body weigh t 16- 21 Kg (18.5 Kg Avg.)	Increa se in avg. body weigh t by 8.1%			15 50	40 00	24 50	2. 58	150 0	370 0	22 00	2.4 6	
3	Goat	Mana geme nt	Castrati on	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	

(iii) Fisheries

Sl. No.	Categor y, e.g. Commo n carp, orname ntal fish etc.	Them atic area	Name of Techn ology	No. of farme rs	No. of unit s	No. of fish/ fingerling s	Major Performance parameters / indicators		% chang e in the para meter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remark s
							Demo	Check		Demo	Check	GC **	GR **	N R* *	BC R* *	GC	GR	NR	BC R	

**** GC- Gross Cost, GR- Gross Return, NR- Net Return, BCR- Benefit-Cost Ratio**

Note: Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

(iv) Other enterprises

Sl. No.	Category/ Enterprise, e.g., mushroom, vermicompost, apiculture etc.	The matrix are a	Name of Technology	No. of farmers	No. of units	Major Performance parameters / indicators		% change in the parameter	Other parameters (if any)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)				Remarks
						Demo	Check		Demo	Check	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR	

(v) Farm Implements and Machinery

Sl. No.	Name of implement	Crop	Name of Technology demonstrated	No. of farmers	Area (In ha.)	Field observation (Output/ man-hours)		% change in the parameter	Labour reduction (Man days)	Cost reduction (Rs. per ha. or Rs. per unit etc.)	Remarks
						Demo	Check				

f. Performance of FLD on Crop Hybrids

Sl. No.	Crop	Name of hybrids	Area (ha.)	No. of farmers	Avg. yield (Q/ha.)		% increase in Avg. yield	Additional data on demo. yield (Q/ha.)		Econ. of demo. (Rs./Ha.)				Econ. of check (Rs./Ha.)			
					Demo.	Check		H*	L*	GC**	GR**	NR**	BCR**	GC	GR	NR	BCR
1	Tomato	Rocky F1	1.5	3	285	242	15.09	302	268	91650	302000	210350	1:3.2	85450	197900	112450	1:2.3
2	Tomato	Namdhari Suraksha & Namdhari 812	2.0	3	264	239	9.47	294	234	85600	294000	208400	1:3.4	83900	156200	72300	1:1.8
3	Broccoli	Harumi F1	2.0	4	109	92	15.6	120	98	98750	40000	141250	1:2.4	96800	141700	44900	1:1.5

[illegible]

Thematic area	No. of Courses/ prg.			Participants																		Grand Total
	Off	Sp Off*	Total	General						SC/ST						Total						
				Male		Female		Total		Male		Female		Total		Male		Female		Total		
				Of f	Sp Off *	Of f	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off *	Off	Sp Off*	Off	Sp Off *	Off	Sp Off*	
I. Crop Production																						
Weed Management																						
Resource Conservation Technologies	2	-	2							21	-	22	-	43	-	21	-	22	-	43	-	43
Cropping Systems	2	-	2							26	-	25	-	51	-	26	-	25	-	51	-	51
Crop Diversification	1	-	1							16	-	10	-	26	-	16	-	10	-	26	-	26
Integrated Farming	1	-	1							8	-	15	-	23	-	8	-	15	-	23	-	23
Water management	2	-	2							31	-	23	-	54	-	31	-	23	-	54	-	54
Seed production	3	-	3							33	-	37	-	70	-	33	-	37	-	70	-	70
Nursery management	1	-	1							4	-	14	-	18	-	4	-	14	-	18	-	18
Integrated Crop Management	3	-	3							26	-	42	-	68	-	26	-	42	-	68	-	68
Fodder production																						
Production of organic inputs	1	-	1							10	-	13	-	23	-	10	-	13	-	23	-	23
II. Horticulture																						

orchards																						
Export potential fruits																						
Micro irrigation systems of orchards																						
Plant propagation techniques																						
c) Ornamental Plants																						
Nursery Management																						
Management of potted plants																						
Export potential of ornamental plants																						
Propagation techniques of Ornamental Plants																						
d) Plantation crops																						
Production and Management technology																						
Processing and value addition	1	-	1							3	-	18	-	21	-	3	-	18	-	21	-	21
e) Tuber crops																						
Production and	1	-	1							15	-	10	-	25	-	15	-	10	-	25	-	25

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 Technology																						
VII Plant Protection																						
Integrated Pest Management	3	-	3							84	-	44	-	128	-	84	-	44	-	128	-	128
Integrated Disease Management	1	-	1							19	-	27	-	46	-	19	-	27	-	46	-	46
Bio-control of pests and diseases	2	-	2							29	-	41	-	70	-	29	-	41	-	70	-	70
Production of bio control agents and bio pesticides																						
VIII Fisheries																						

[illegible]

XI Agro-forestry

Production technologies																						
Nursery management																						
Integrated Farming Systems																						
TOTAL	36	4	40							453	55	493	53	946	108	453	55	493	53	946	108	1054

	(B) RURAL YOUTH
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3.3.3. Achievements on Training Rural Youth in On Campus including Sponsored On Campus Training Programmes
 (*Sp. On means On Campus training programmes sponsored by external agencies)

[illegible]

Rabbit farming																						
Poultry production	1	-	1							10	-	15	-	25	-	10	-	15	-	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																						
Tailoring and Stitching																						
Rural Crafts																						
TOTAL	6	1	7							66	9	95	13	161	22	66	9	95	13	161	22	183

[illegible]

inputs																						
Gender mainstreaming through SHGs																						
TOTAL	5		5							83		40		123		83		40		123		123

Annexure 1: Details of Training Programme (On Campus including Sponsored On Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Extension		Gender mainstreaming through SHGs	17/4/14	1	KVK, Conference Hall	Farmer & Farm women				10	15	25	10	15	25
GPB	Seed Production	Plant propagation technique in tapioca	25/4/2014	1	KVK Conference hall	Farmer & Farm women				10	13	23	10	13	23
Extension		Gender mainstreaming through SHGs	8/5/14	1	KVK, Conference Hall	Farmer & Farm women				10	15	25	10	15	25
Vety.&A.H		Value addition of meat products	8-9/5/14	2	KVK conference Hall	Farmer & Farm women				5	20	25	5	20	25
GPB	Seed Production	Seed conservation technique in cucumber	12/5/2014	1	KVK Conference hall	EP				15	9	24	15	9	24

Agronomy	Productivity enhancement in field crops	Cultivation of HYV paddy and maize	12/5/14	1	KVK conference Hall	Farmer & Farm women				10	8	18	10	8	18
Extension		Formation and management of SHGs	22/7/14	1	KVK, Conference Hall	EF				8	7	15	7	8	15
Horticulture	Protected cultivation technology	Protected cultivation	26/9/14	1	KVK conference Hall	RY				12	13	25	12	13	25
Horticulture		Vegetable nursery management and cultivation of winter crops	12/10/14	1	KVK conference Hall	RY				10	14	24	10	14	24
Extension		Entrepreneurial development of youth	9/12/14	1	KVK, Conference Hall	RY				10	14	24	10	14	24
Extension		Entrepreneurial development of youth	12/2/15	1	KVK, Conference Hall	RY				8	16	24	8	16	24

Annexure 2: Details of Training Programme (Off Campus including Sponsored Off Campus) for Farmers, Farm Women, Rural Youth and Extension Personnel

Discipline	Area of training	Title of the training programme	Date (From – to)	Duration in days	Venue	Please specify Beneficiary group (Farmer & Farm women/ RY/ EP and NGO Personnel)	General participants			SC/ST			Grand Total		
							M	F	T	M	F	T	M	F	T
Vety.&A.H	Management in farm animals	Improved dual purpose bird-Vanaraja	2/4/14	1	Longmisa	Farmer & Farm women				6	10	16	6	10	16
Agronomy	Productivity enhancement in field crops	Cultivation of composite Maize	22/04/14	1	Sungratsu	Farmer & Farm women				10	15	25	10	15	25
Agronomy	Productivity enhancement in field crops	Cultivation of HYV paddy and maize	9/5/14	1	Longkhum	Farmer & Farm women				16	10	26	16	10	26
Horticulture		Cultivation of large cardamom	14/5/14	1	Yimchalu	Farmer & Farm women				10	12	22	10	12	22
Agronomy	Productivity enhancement in field crops	Cultivation of HYV paddy and maize	19/5/14	1	Kinunger	Farmer & Farm women				16	10	26	16	10	26
Agronomy		SRI	10/6/14	1	Aliba	Farmer & Farm women				13	10	23	13	10	23
Vety.&A.H		Small scale poultry production	10/6/14	1	Kupza	RY				10	15	25	10	15	25
GPB	Integrated Crop	Cultivation practices of	16/6/2014	1	Longsa	Farmer & Farm women				8	15	23	8	15	23

	Manag ement	upland paddy													
Extension		Mobilization of social capital in villages	17/6/14	1	Akhoya	Farmer & Farm women				13	10	23	13	10	23
Agronomy		SRI	16/7/14	1	Longsa	Farmer & Farm women				10	15	25	10	15	25
Vety.&A.H	Manag ement in farm animal s	Improved dual purpose- vanaraja bird	16/7/14	1	Kupza	Farmer & Farm women				10	15	25	10	15	25
Plant protection	Bio- contro l	Bio- intensive integrated Pest managemen t in Paddy	23.07.14	1	Mopun gchuket	Farmer & Farm women	-	-	-	12	25	37	12	25	37
Agronomy		Cultivation practices of pulses- pigeon pea	2/8/14	1	Aokum	Farmer & Farm women				7	11	18	7	11	18
GPB	Integra ted Crop Manag ement	Cultivation practices of French bean	4/8/201 4	1	Kubza	Farmer & Farm women				10	14	24	10	14	24
Vety.&A.H	Manag ement in farm animal s	Goatry managemen t and production	7/8/14	1	Ungma	Farmer & Farm women				20	5	25	20	5	25
Plant protection	IPM	Integrated Pest Manageme nt - an Overview	8.8.14	1	Mokokc hung	RY	-	-	-	9	13	22	9	13	22

Horticulture		Protected cultivation	9/8/14	1	Longkhum	RY				9	15	24	9	15	24
GPB	WTO and IPR issues	Protection of Plant Varieties and Farmers Right Act	30/8/2014	1	Mokokchung DAO office	EP				14	4	18	14	4	18
GPB	WTO and IPR issues	Recent approaches in crop improvement	15/9/2014	1	Mokokchung DAO office	EP				20	4	24	20	4	24
Extension		Leadership development in village	16/9/14	1	Longkhum	Farmer & Farm women				13	10	23	13	10	23
Horticulture		Package practices of winter vegetables	16/9/14	1	Longjang	Farmer & Farm women				10	14	24	10	14	24
Agronomy		Cultivation practices of pulses-french bean	17/9/14	1	Mangmetong	Farmer & Farm women				10	14	24	10	14	24
Vety.&A.H	Management in farm animals	Advances in swine health care	17/9/14	1	Kupza	Farmer & Farm women				10	15	25	10	15	25
Plant protection	IDM	Safeguarding crops from diseases through seed treatment – a practical	27.9.14	1	Longkhum	Farmer & Farm women	-	-	-	19	27	46	19	27	46

		approach													
Plant protection	Beneficial Organism	Cultivation of Mushroom & Management of its Pests	9.10.14	1	Chuchuyimban g	RY	-	-	-	27	19	46	27	19	14
Horticulture		Package practices of winter vegetables	10/10/14	1	Yimchal u	Farmer & Farm women				11	12	23	11	12	23
Vety.&A.H		Climate change and livestock	15/10/14	1	Aliba	EP				15	10	25	15	10	25
Vety.&A.H		New drugs in vety. Practice	20/10/14	1	Chungti a	EP				15	10	25	15	10	25
Extension		Information networking among farmers	20/10/14	1	Yimchal u	Farmer & Farm women				10	15	25	10	15	25
GPB	Seed Production	Seed conservation in paddy	21/10/2014	1	Wameken	Farmer & Farm women				10	12	22	10	12	22
Plant protection	IPM	IPM for Sustainable Agriculture	23.10.14		Longkh um	Farmer & Farm women	-	-	-	34	17	51	34	17	51
Plant protection	Biological control	Biological Control of Insect Pests & Diseases for Organic farming	25.10.14	1	Aliba	Farmer & Farm women	-	-	-	17	17	33	17	16	33
Plant protection	IPM	Post harvest management	8.11.14	1	Mangmetong	Farmer & Farm women	-	-	-	21	15	36	21	15	36

		t of Maize against Stored pests													
Horticulture	Post Harvest Technology	Value addition on orange	8/11/14	1	Salulamang	Farmer & Farm women				3	18	21	3	18	21
Vety.&A.H	Management in farm animals	Pig and poultry management under changing climate	10/11/14	1	Aliba	Farmer & Farm women				11	10	21	11	10	21
GPB	Seed Production	Seed conservation in paddy	11/11/2014	1	Longjang	Farmer & Farm women				13	10	23	13	10	23
Agronomy		Oilseed and pulses cultivation practices.	17/11/14	1	Salulamang	Farmer & Farm women				9	17	26	9	17	26
Vety.&A.H		Zoonosis and its importance	19/11/14	1	Chungti a	Farmer & Farm women				17	8	25	17	8	25
Extension		Managing group dynamics	25/11/14	1	Longkhum	Farmer & Farm women				10	15	25	10	15	25
Horticulture	Rejuvenation of old orchards	Orange orchard management	5/12/2014	1	Kupza	Farmer & Farm women				13	18	31	13	18	31
Agronomy		Oilseed and pulse production practices	9/12/2014	1	Kupza	Farmer & Farm women				4	14	18	4	14	18
GPB	Value	Value	10/12/2	1	Molong	RY				5	18	23	5	18	23

[illegible]

[illegible]

*training title should specify the major technology /skill transferred

Annexure 3: Only Sponsored Training Programmes (On, Off and Vocational)

[illegible]

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) during 2014-15

Sl. No.	Extension Activity	Topic	Date and duration	No. of activities	Participants											
					General (1)			SC/ST (2)			Extension Officials (3)			Grand Total (1+2)		
					M	F	T	M	F	T	M	F	T	M	F	T
	Advisory services			44				166	183	349				166	183	349
	Diagnostic visit			72				200	231	431				200	231	431
	Field day			-												
	Group Discussion			23				238	195	433				238	195	433
	Kishan Gosthi			-												
	Kishan Mela			-												
	Film show			-												
	SHG formation			1				16	-	16				16	-	16
	Exhibition			2				-	-	-				-	-	-
	Scientists visit to farmers fields			28				69	70	139				69	70	139
	Plant/ Animal Health camp			-												
	Farm science club			-												
	Ex-trainee Sammelan			-												
	Farmers seminar/ workshop			-												
	Method demonstration			13				140	145	285				140	145	285
	Celebration of important days			-												
	Exposure visits			-												
	Electronic media (CD/DVD)			-												
	Extension literature			1				-	-	-	-	-	-	-	-	-
	Newspaper coverage			-												
	Popular articles			-												
	Radio talk			-												
	TV talk			-												
	Training manual			-												
	Soil health camp			-												
	Awareness camp			-												
	Lecture delivered as resource			25				344	269	613				344	269	613

	person																
	PRA			-													
	Farmer-Scientist interaction			=													
	Soil test campaign			-													
	Mahila Mandal Convener meet			=													
	Any other (Please specify)			6				107	121	228				107	121	228	
				=													
Grand Total					213				1264	1214	2478				1264	1214	2478

3.5 Production and supply of Technological products during 2014-15

A. SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Number of recipient/ beneficiaries		
					General	SC/ST	Total
CEREALS							
	Maize	RCM-76	4.5	15750	-	15	15
	Paddy	CAU R-1	6.5	13000	-	30	30
OILSEEDS							
	Toria	TS-36	3	13500	-	25	25
PULSES							
	Kidney bean	Tuensang local	1.35	9000	-	6	6
VEGETABLES							
FLOWER CROPS							
OTHERS (Specify)	Taro	Muktakeshi	4.7	11750		45	45
	Ginger	Nadia	2.6	13000		17	17

A1. SUMMARY of Production and supply of Seed Materials during 2014-15

Sl. No.	Major group/class	Quantity (ton.)	Value (Rs.)	Number of recipient/ beneficiaries		
				General	SC/ST	Total
1	CEREALS					

2	OILSEEDS					
3	PULSES					
4	VEGETABLES					
5	FLOWER CROPS					
6	OTHERS	0.73	24750		62	62
TOTAL						

B. Production of Planting Materials (Nos. in lakh)

Major group/class	Crop	Variety	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
					General	SC/ST	Total
Fruits							
Spices							
Ornamental Plants							
VEGETABLES	Tomato	Rocky	0.02	6000		25	25
	Chilli	Pusa Jwala	0.03	9000		30	30
	Capsicum	Swarna	0.01	3000		15	15
	Broccoli	Harumi	0.02	6000		25	25
Forest Spp.							
Plantation crops							
Medicinal plants							
OTHERS (Pl. Specify)	Cassava	Sree Jaya	0.05	15000		13	13

B1. SUMMARY of Production and supply of Planting Materials (In Lakh) during 2014-15

Sl. No.	Major group/class	Numbers (In Lakh)	Value (Rs.)	Number of recipient beneficiaries		
				General	SC/ST	Total
1	Fruits					
2	Spices					
3	Ornamental Plants					
4	VEGETABLES	0.08	24000		95	95
5	Forest Spp.					
6	Medicinal plants					
7	Plantation crops					
8	OTHERS (Specify)	0.05	15000		13	13

TOTAL	0.13	39000		108	108
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C. Production of Bio-Products during 2014-15

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient /beneficiaries		
			No	(qt)		General	SC/ST	Total
BIOAGENTS								
BIOFERTILIZERS								
1								
BIO PESTICIDES								
1								

C1. SUMMARY of production of bio-products during 2014-15

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	BIOAGENTS							
2	BIO FERTILIZERS							
3	BIO PESTICIDE							
	TOTAL							

D. Production of livestock during 2014-15

Sl. No.	Type of livestock	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		
			(Nos)	Kgs		General	SC/ST	Total
	Cattle/ Dairy							
	Goat							
	Piggery							
	Poultry							
	Fisheries							
	Others (Specify)							

D1. SUMMARY of production of livestock during 2014-15

Sl. No.	Livestock category	Breed	Quantity		Value (Rs.)	Number of Recipient beneficiaries		Total number of Recipient beneficiaries
			Nos	(kg)		General	SC/ST	
1	CATTLE							
2	GOAT	Beetle cross Assam local	7 kids	-	14000	-	7	7
3	POULTRY							
4.	PIGGERY							
5	FISHERIES							
6	OTHERS (Pl. specify)							
	TOTAL							

3.6. Literature Developed/Published (with full title, author & reference) during 2014-15

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

(B) Articles/ Literature developed/published

Item	Title /and Name of Journal	Authors name	Number of copies
Research papers			
	Performance of different varieties of Broccoli under rainfed mid-hill conditions of Mokokchung district, Nagaland. <i>International Journal of Farm Sciences</i>	Renbomo Ngullie and Pijush Kanti Biswas	
	Performance evaluation of tomato varieties under mid-altitude of Mokokchung district of Nagaland <i>International Journal of Farm Sciences</i>	Renbomo Ngullie and Pijush Kanti Biswas	
	Performance of Capsicum under protected and open field conditions under Mokokchung District of Nagaland <i>Advanced Research Journal of Crop Improvement</i>	Renbomo Ngullie and Pijush Kanti Biswas	
	Adoption of Climate Resilient Agricultural Technologies and its Impact on Aliba village under Mokokchung district of Nagaland. <i>Asian Journal of Environmental Sciences</i>	Pijush Kanti Biswas, Renbomo Ngullie, Samuel Sangtam, Rongsensusang, Ruyosu Nakro, Bendangjungla, Ruopfuselhou Kehie and Shilunokdang Jamir.	

	Performance of Different Bittergourd Genotypes under Mokokchung District of Nagaland <i>International Journal of Farm Sciences</i>	Renbomo Ngullie and Pijush Kanti Biswas	
Training manuals	Training Manual on Propagation of Fruit Trees and Other Plants	Pijush Kanti Biswas, Renbomo Ngullie, and Shilunokdang Jamir.	50
Technical Report			
Book/ Book Chapter			
Popular articles			
Technical bulletins			
Extension bulletins	Glimpses of NICRA Activities by KVK Mokokchung	Pijush Kanti Biswas, Renbomo Ngullie, Samuel Sangtam, Rongsensusang, Ruyosu Nakro, Bendangjungla, Ruopfuselhou Kehie and Shilunokdang Jamir	100
Newsletter	KVK Newsletter Vol.4(Issue-2) KVK Newsletter Vol.5 (Issue-1)		100 100
Conference/ workshop proceedings			
Leaflets/folders	Package of practices of Broccoli Cultivation of summer cabbage Package of practices of Red Cabbage Banana Orchard Management The importance of Book Keeping and their usage for SHGs Training Needs Assessment Recent Approaches in Crop Improvement Nagaland Nung Amshitsu Tsuk Mesu Tajungtem Releasing Trichogramma SPP (A Farmers'Friend) for Bio-Control of Insect Pests Package of Practices of Toria Jhum Cultivation A way of life Care & Management of Pregnant Sow Care and Management of Piglets	Renbomo Ngullie Renbomo Ngullie Renbomo Ngullie Renbomo Ngullie Ruyosu Nakro Ruyosu Nakro Bendangjungla.I Bendangjungla.I. Dr.Ruopfuselhou Kehie K. Samuel Sangtam K, Samuel Sangtam Dr. Rongsensusang Dr. Rongsensusang	100 Each
e-publications			
Any other (Pl. specify)			
TOTAL			

(C) Details of Electronic Media Produced

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

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
- Extension personnel

3.11 Field activities

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

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab :Completed

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		7	2,01,903

3. Details of samples analyzed so far :

Details	No. of Samples	No. of Farmers	No. of Villages	Amount (In Rupees) realized
Soil Samples	15	15	5	375
Water Samples	-	-	-	-
Plant Samples	-	-	-	-
Petiole Samples	-	-	-	-
Total	15	15	5	375

Details of SMS/ Voice Calls sent on various priority areas

Message type	Crop		Livestock		Weather		Marketing		Awareness		Other Ent.		Total	
	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary	No. of Message	No. of Beneficiary
Text only	50	4050	26	1605	39	3384	8	651	8	651	10	615	141	10956
Voice only	13	13	21	21	15	15	7	7	11	11	16	16	83	83
Voice and Text both	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	63	4063	47	1626	54	3399	15	658	19	662	26	631	224	11039

3.14 Contingency planning for 2015-16

Crop based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Proposed Measure	Proposed Area (In ha.) to be covered	Number of beneficiaries proposed to be covered		
			General	SC/ST	Total
	Introduction of new variety or crop				
	Introduction of Resource Conservation Technologies				
Drought	In-situ moisture conservation	5		75	75
Drought	Mulching with crop residues and polythene sheets	2		100	100

	Distribution of seeds and planting materials	2		50	50
	Any other (Please specify)				
Drought, pest & disease infestation	Protected cultivation			30	30

a. Livestock based Contingency planning

Contingency (Drought/ Flood/ Cyclone/ Any other please specify)	Number of birds/ animals to be distributed	No. of programmes to be undertaken	No. of camps to be organized	Proposed number of animals/ birds to be covered through camps	Number of beneficiaries proposed to be covered		
					General	SC/ST	Total
Improvement of Swine Production through introduction of superior breed	30 pigs	1				10	10
Disease control and management during flood	-	2	2	300		150	150
Feed and Fodder cultivation for animal feed security	-	1	-	-		20	20

4.0. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

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 ESTABLISHED

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 during 2014-15- (NA)

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

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes/No

Sl. 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 DURING 2014-15

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estd.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Vermicompost	2008	20sqm	<i>Esenia foetida</i>	Compost	760kg/yr	2200	-	-
2	Banana fiber extraction	2010	500sqm	-	Fiber	On going	-	-	-
3	Goatery	2013							

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									
Rice	5/06/14	27/11/14	0.065	CAU R1	Seed	950kg	2500	3200	High yield
Wheat									
Maize	6/4/14	3/8/14	0.050	RCM-76	Seed	350kg	1200	1225	-
Any other									
Pulses									
Green gram									
Black gram									
Arhar									
Lentil									
Ay other Pea	12/10/14	27 jan-10	0.025	Arkel	Pod	0.72	850	1080	-

Soybean	14/06/14	feb 2015 16/12/14	0.022	JS-355	Pod	0.32	650	1120	-
Oilseeds									
Mustard									
Soy bean									
Groundnut									
Any other									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
i.cabbage	12/8/14	4/12/14	6m ²	DISA-F ₁	curd	6kgs		Rs 180	
ii.Tomato	22/9/14	13/1/15 22/1/15	8m ²	rocky	fruit	12kgs		Rs 360	
iii.cabbage	22/9/14	16/2/15	6m ²	Wonder ball	head	2kgs		Rs 30	2 nd harvest to be done
iv.pea	29/9/14	10/2/15	6m ²	arkel	pod	4kgs		Rs 120	Do -
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	

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed/ species	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Goat	Beetle Crossed Assam local	Kids	7	10000	14000	

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

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

6.6. Utilization of hostel facilities (Month-Wise) during 2014-15: 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					

Note: (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/ Branch	Account Number
With Host Institute	State Bank of India	Lerie, Kohima	01000050059
With KVK	State Bank of India	Mokokchung, Main Branch	01000050913
Revolving Fund			

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31st March, 2015
	Year	Year	Year	Year	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2014 -15

S. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	78.00	45.68	45.68
2	Traveling allowances	1.5	-	-
3	Contingencies	25.5	11.5	11.5
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			
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			
TOTAL (A)		25.50	11.50	11.50
B. Non-Recurring Contingencies				
1	Works			

2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler, please specify)			
4	Library (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		25.50	11.50	11.50

7.4 Status of Revolving Fund (Rs. in lakhs) for last three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2012 to March 2013	25,500	20,000	15,500	30,000
April 2013 to March 2014	30,000	25,000	30,000	25,000
April 2014 to March 2015	25,000	44,350	9,500	34,850

8.0 Please include information which has not been reflected above.

8.1 Constraints

(a) Administrative :

Need for more staffs supporting staffs
We have soil testing lab but no technicians to handle it.

(b) Financial :

1. As our KVK established in a hilly area, It is very costly to undertake different extension activities and vehicle maintenance. So, we required more contingency as per our topography and periphery of work concern.
2. Comparatively with other SMSs, Animal Science division needs more fund for conducting of any trials. So, amount of fund for OFT, FLD and trainings should be on par with our requirement
3. Since, single host is running many KVKs, submission of utilization certificate on time gets delayed and due to that, fund release process get delayed. So to make ease and function the activities smoothly, disbursement of fund to individual KVK account directly will help for smooth functioning of the KVK.

(c) Technical :

1. Need of one mushroom unit, green house, sericulture unit and bio control lab for production of bio-control agents
2. Need of VSAT and power generator
3. Need of one row paddy transplanted, power tiller, mini mechanical thresher, mini paddy reaper, auto clave, laminar flow chamber, BOD incubator etc

(Signature)
Programme Coordinator