

# **ANNUAL ACTION PLAN: 2012-13**

**(APRIL 2012 TO MARCH 2013)**

## **KVK, Chirang**

### **PART – I**

**(GENERAL INFORMATION)**

#### **1. General information about the KVK**

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

<b>Complete postal address with Pin Code</b>	<b>Telephone</b>	<b>Fax</b>	<b>E mail</b>
Krishi Vigyan Kendra, Chirang, PO: Kajalgaon –783 385, BTAD, Assam	03664 – 243775	03664 – 243775	kvkbngn@gmail.com

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

<b>Complete postal address with Pin Code</b>	<b>Telephone</b>	<b>Fax</b>	<b>E mail</b>
Assam Agricultural University, Jorhat – 785 013, Assam	0376 – 2340001	0376 – 2340001	–

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

<b>Name of PC</b>	<b>Contacts</b>		
	<b>Residence</b>	<b>Mobile</b>	<b>E mail</b>
Dr. Kameswar Das	-	9854071472	kvkbngn@gmail.com, kameswardas@rediffmail.com

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

**Year of sanction of KVK: 2004**

**Scientific Staff Position\* (As on 31<sup>st</sup> January, 2012)**

<b>No.</b>	<b>Sanctioned posts</b>	<b>Name of the incumbent</b>	<b>Designation</b>	<b>Discipline</b>	<b>Date of joining</b>	<b>Permanent /Temporary</b>
1	Programme Coordinator	Dr. K. Das	Prog. Coordinator	Agronomy	17.08.11	Permanent
2	Subject Matter Specialist	Mr. S. Kalita	Subject Matter Specialist	Entomology	04.01.10	Permanent
3	Subject Matter Specialist	Dr. H. K. Baruah	Subject Matter Specialist	Agril. Econ.	07.11.08	Permanent
4	Subject Matter Specialist	Dr. P. Devi	Subject Matter Specialist	Animal science	15.11.08	Permanent
5	Subject Matter Specialist	Mr. B. Sarma	Subject Matter Specialist	Horticulture	08.08.11	Permanent
6	Subject Matter Specialist	Ms. G. Kataki	Subject Matter Specialist	Soil Science	04.08.11	Probation
7	Subject Matter Specialist	Ms. R. Brahma	Subject Matter Specialist	Agronomy	06.08.11	Probation
8	Programme Assistant	Ms. M. Borthakur	Programme Assistant	Home Science	04.01.12	Probation
9	Computer Programmer	Ms. C. Nath	Prog. Asstt. (Computer)	Computer Application	12.11.08	Permanent
10	Farm Manager	Mr. J. K. Sarma	Farm Manager	Agronomy	12.01.09	Probation
11	Accountant/Superintendent	Mr. P.K. Roy	Accountant / Superintendent	–	25.02.2012	Probation
12	Stenographer cum computer operator	Mr. A. Basumatary	Stenographer cum computer operator	–	25.02.2012	Probation
13	Driver cum computer operator	Mr. L. Brahma	Driver Driver cum Mechanic	–	20.02.2012	Probation
14	Driver	Mr. S. Boro	Driver Driver cum Mechanic	–	20.02.2012	Probation
15	Supporting staff	Mr. P. Ch. Roy	Supporting Staff	–	21.02.06	Permanent
16	Supporting staff	Mr. L. Murmu	Supporting Staff	–	20.02.06	Permanent

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

**Total land with KVK (in ha): 12 ha**

<b>No.</b>	<b>Item</b>	<b>Area (ha)</b>
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1	Under Buildings	Under construction
2	Under Demonstration Units	NA
3	Under Crops	2.0
4	Orchard/Agro-forestry	2.0
5	Others	NA

**SAC meetings proposed for the year:**

No.	Proposed Date/Month	Expected Participants	Salient Action Points
1.	February, 2013	40	Identification of thrust areas Identification of need based trainings, OFTs, FLDs and other extension activities Collaborative activities with other depts., NGOs, FOs etc. Finalization of Action Plan

**Details of district (2011-12)**

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

No	Farming systems identified
1	Agriculture — Horticulture
2	Agriculture — Animal Husbandry
3	Agriculture — Fishery
4	Agriculture — Horticulture — Animal Husbandry
5	Agriculture — Horticulture — Fishery
6	Agriculture — Sericulture

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

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

No	Agro-climatic Zone	Characteristics
1	Lower Brahmaputra Valley Zone	The soil of the zone is mostly acidic in nature and soil P <sup>H</sup> gradually increases towards the river Brahmaputra. The soil is medium to high in organic carbon and available N, low in available P <sub>2</sub> O <sub>5</sub> and medium in K <sub>2</sub> O status. Four orders of soils are found in the zone (i) Entisol, (ii) Inceptisol, (iii) Alfisol and (iv) Ultisol.

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

No	Agro ecological situation	Characteristics
1	Foot hill old mountain valley alluvial plain	The northern part of the district comprising this situation contains old mountain valley alluvial soils (Alfisol & Ultisol). It is build up of alluvial materials washed down from the hill slops. The surface soil is light yellow to pale brown, compact, sticky and plastic. Generally, medium to heavy in soil texture. The elevation is higher towards foot hills which gradually slop towards south.
2	Flood prone recent riverine alluvial plain	Recent riverine alluvial (Entisol), sandy to sandy loam in soil texture. This situation is represented by an almost flat topography which often experiences flood hazard. Apart from some natural depressions, some riverine islands are also in existence.
3	Flood free riverine alluvial middle plain	Old riverine alluvial type (Inceptisol). The texture of the surface soils ranges from sandy loam to loam, silty clay loam, silty clay and clay. The topography is almost plain.
4	Hill and Hillock	Old alluvial type (Alfisol), sandy to sandy loam in texture and acidic in nature. The topography is undulating.

**Details of Operational area / Villages**

No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bijni	Borobazar	Pub Khamarpara, Saragaon, Laugaon	Major crops are rice, lentil, rapeseed & mustard, areca nut, coconut, banana, vegetables, bamboo etc.  Major enterprises are cropping, fishery, dairy, duckery, goatery, backyard poultry etc.	-Soil acidity -Yield gap in paddy, pulses, oilseeds, fruits and vegetables -Low rate of seed replacement and poor adoption of HYVs -Poor fertility management -Rainfed farming -Un-organized marketing system -Low productivity of animals --Low production of fish per unit of water bodies.	-Management of acid soil -Crop planning for rainfed area. -Commercial production of fruits and vegetables. -Increasing productivity of major field crops through improved crop management practices -Popularization of HYVs -Seed and planting material production -Adoption of INM and IPM technologies. -Live-stock management -Adoption of improved fish production technology. - Formation of SHGs and farmer's club
2	Sidli	Sidli	Jhaoliabar, Hasraabari, Tangabari, Pub Enkorbari	Rice, rapeseed & mustard, sesame, black gram, buckwheat, kharif & rabi vegetables, banana etc. are important crops.  Major enterprises included cropping, dairy, backyard poultry, goatery etc.	-Soil acidity -Rain fed farming -Low rate of seed replacement - Yield gap in paddy, pulses, oilseeds, fruits and vegetables -Imbalance use of chemical fertilizer -Low productivity of animals	-Acid soil management -Productivity enhancement in major field crops. - Popularization of HYVs - Seed and planting material production --Commercial production of fruits and vegetables. -Adoption of INM and IPM technologies. -Live-stock management -Formation of farm science club
3.	Boitamari	Boitamari	Kayethpara, Talguri, Boitamari	Rice, rapeseed & mustard, Kharif and Rabi Vegetables, horticultural crops.  Major enterprises included cropping, dairy, backyard poultry, goatery etc.	-Yield gap in major field crops and vegetables -Low rate of seed replacement -Imbalance use of chemical fertilizer -Low productivity of animals - Inadequate post harvest handling of fruits and vegetables	-Productivity enhancement in major field crops - Popularization of HYVs - Seed and planting material production - Commercial production of fruits and vegetables. - INM and IPM technologies. -Live-stock management -Post harvest management of fruits and vegetables
4.	Dangtol	Dangtol	Nowagaon, Saunagaon, Dangtol, Barsangaon, Chiponsila	Rice, rapeseed & mustard, Kharif and Rabi Vegetables, horticultural crops.  Major enterprises included cropping, dairy, piggery, backyard poultry, goatery etc.	-Soil acidity -Yield gap in paddy, pulses, oilseeds, fruits and vegetables -Low rate of seed replacement and poor adoption of HYVs -Poor fertility management -Rainfed farming -Un-organized marketing system -Low productivity of animals --Low production of fish per unit of water bodies.	-Management of acid soil -Crop planning for rainfed area. -Commercial production of fruits and vegetables. -Increasing productivity of major field crops through improved crop management practices -Popularization of HYVs -Seed and planting material production -Adoption of INM and IPM technologies. -Live-stock management -Adoption of improved fish production technology. - Formation of SHGs and farmer's club
5.	Manikpur	Manikpur	Sauraguri, baghmara, Kokila, Palengbari	Major crops are rice, lentil, rapeseed & mustard, areca nut, banana, vegetables, etc.  Major enterprises are cropping, fishery, dairy, duckery, goatery, backyard poultry etc.	-Low rate of seed replacement and poor adoption of HYVs -Yield gap in paddy, pulses, oilseeds, fruits and vegetables -Poor fertility management -Rainfed farming -Un-organized marketing system -Low productivity of animals --Low production of fish per unit of water bodies.	-Popularization of HYVs -Seed and planting material production -Crop planning for rainfed area. -Commercial production of fruits and vegetables. -Increasing productivity of major field crops through improved crop management practices -Adoption of INM and IPM technologies. -Live-stock management -Adoption of improved fish production technology. - Formation of SHGs and farmer's club

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

<b>Rank</b>	<b>Thrust area</b>
1	Reduction of yield gap in major field crops such as rice, oilseeds and pulses through introduction of improved varieties and improved crop management practices
2	Production of seed and planting material
3	Commercial production of fruits and vegetables
4	Breed up gradation and scientific livestock management
5	Soil fertility management through Integrated approach of Plant Nutrient supply system and balance fertilization
6	Integrated Pest management
7	Post harvest processing and value addition in traditional fruit crop
8	Scientific pisciculture
9	Empowerment of women and reorientation of SHGs towards commodity based production & marketing system

**PART – II**  
**(OFT AND FLD)**

**2. Technical activities proposed**

**Mandated activities (Abstract)**

**Discipline: Agronomy**

Activities	Thematic Area	Crop/ cropping System	Target			Achievement		
			OFT (No.)	Trial (No.)	Area (ha)	OFT (No.)	Trial (No.)	Area (ha)
OFT	Varietal performance	Jute (Rainfed)	1	3	0.40			
	Integrated Weed Mgmt	Direct seeded Rice	1	3	0.20			
	Integrated Nutrient Mgt							
	Water Mgmt							
	Tillage Mgmt/Farm Machinery	Toria (Rainfed)	1	3	0.20			
	Any other (Please specify)							

Activities	Thematic Area	Crop/ cropping System	Target		Achievement	
			FLD (No.)	Area (ha.)	FLD (No.)	Area (ha.)
FLD	Varietal performance	Rice	3	2.0		
	Integrated Weed Mgmt					
	Integrated Nutrient Mgmt	Vegetables	2	0.20		
	Water Mgmt					
	Tillage Mgmt/Farm Machinery					
	Any other (Please specify)	Rice	2	1.0		
	Maize	2	1.0			
	Toria	2	0.5			
	Integrared crop mgmt	Lentil	2	0.5		

Training activities (under Agronomy)	Participants	Target		Achievement	
		No. of programmes	No. of beneficiary	No. of programmes	No. of beneficiary
	Rural youth	3	30		
	Farmers	8	160		
	Farm women				
	Extension personnel	1	10		
	Civil society				
	Any other (Pl. specify)				
	Vocational programmes	Rural youth	1	10	
Farmers		1	10		
Farm women		1	10		
Extension personnel		1	10		
Civil society					

	NGO				
	Any other (Pl. specify)				
<b>Sponsored programmes</b>	Rural youth	1	10		
	Farmers				
	Farm women				
	Extension personnel				
	Civil society	1	10		
	Any other (Pl. specify)				

Activity (under Agronomy)	Thematic area	Target		Achievement	
		No. of demonstration	No. of beneficiary	No. of demonstration	No. of beneficiary
Method demonstration	1.				
Diagnostic visits	1.Crop mgmt	2			
	2.Insect pest mgmt	2			

#### SEED PRODUCTION (FIELD CROPS)

Crop	Variety	Quantity (qt)	
		Target	Achievements
Rice	Ranjit	4000qt	
Toria	TS-38		
Sessamum	ST-1683		
Lentil	PL-406		
Buckwheat	Joymati		

#### DISCIPLINE: HORTICULTURE

Activities	Thematic Area	Crop/ cropping System	Target			Achievement		
			OFT (No.)	Trial (No.)	Area (ha)	OFT (No.)	Trial (No.)	Area (ha)
OFT	Varietal performance	Tomato	1	3	0.20			
		French bean	1	3	0.20			
	Integrated Nutrient Mgmt							
	Integrated Weed Mgmt	Vegetables	1	3	0.20			
	Orchard Rejuvenation	Citrus	1	3	0.20			
	Post harvest							
	Value addition							
	Canopy mgmt.	Citrus	1	3	0.20			
	Landscaping							
	Mechanization Drip irrigation	Banana	1	3	0.20			
	Any other (Pl. Specify)							

Activities	Thematic Area	Crop/ cropping System	Target	Achievement
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			FLD (No.)	Area (ha.)	FLD (No.)	Area (ha.)
FLD	Varietal performance					
	Integrated Nutrient Mgmt					
	Integrated Weed Mgmt					
	Orchard Rejuvenation					
	Post harvest					
	Value addition					
	Canopy mgmt.	Assam lemon	3	1.0		
	Landscaping					
	Mechanization					
	Any other (Pl. Specify) Integrated crop mgmt	Watermelon Potato Banana	3 3 2	3 4 2		

Training activities (under Horticulture)	Participants	Target		Achievement	
		No. of programmes	No. of beneficiary	No. of programmes	No. of beneficiary
Short term courses	Rural youth	2	20		
	Farmers	10	100		
	Farm women				
	Extension personnel	1	10		
	Civil society				
	Any other (Pl. specify)	1	10		
Vocational programmes	Rural youth	1	10		
	Farmers	1	10		
	Farm women	1	10		
	Extension personnel				
	Civil society				
	NGO				
	Any other (Pl. specify)				
Sponsored programmes	Rural youth				
	Farmers	1	10		
	Farm women				
	Extension personnel				
	Civil society	1	10		
	Any other (Pl. specify)				

Activity (under Horticulture)	Thematic area	Target		Achievement	
		No. of demonstration	No. of beneficiary	No. of demonstration	No. of beneficiary
Method demonstration	1.Canopy Mgmt (Training & Pruning)	1			
Diagnostic visits	1.Pest appearance	2			
	2.Crop mgmt	2			

**PRODUCTION OF PLANTING MATERIALS/ SEED: (VEG/ SPECIES)**

Crop/ Trees	Variety	Quantity (No/ qt)	
		Target	Achievements
Banana	Malbhog	1000	
Pineapple	Kew	1000	

#### DISCIPLINE: SOIL SCIENCE

Activities	Thematic Area	Crop/ cropping System	Target			Achievement		
			OFT (No.)	Trial (No.)	Area (ha)	OFT (No.)	Trial (No.)	Area (ha)
OFT	Soil health	Rice (Green manuring)	1	3	0.10			
	Soil management	Lentil	1	3	0.40			
	Soil testing							
	Soil amendment (Lime/ Others)	Toria	1	3	0.40			
	Soil biology (BGA/ Azolla)	Rice	1	3	0.10			
	Soil microbes (beneficial)							
	Water harvesting							

Activities	Thematic Area	Crop/ cropping System	Target		Achievement	
			FLD (No.)	Area (ha.)	FLD (No.)	Area (ha.)
FLD	Soil health					
	Soil management	Toria	1	5.0		
	Soil testing					
	Soil amendment (Lime/ Others)	Rice (Liming)	3	1.5		
	Soil biology (BGA/ Azolla)					
	Soil microbes (beneficial)	Vermicompost	5	5 units		

Training activities (under Soil Science)	Participants	Target		Achievement	
		No. of programmes	No. of beneficiary	No. of programmes	No. of beneficiary
Short term courses	Rural youth	2	20		
	Farmers	9	180		
	Farm women				
	Extension personnel	1	10		
	Civil society				
	Any other (Pl. specify) NGO				
Vocational programmes	Rural youth	1	10		
	Farmers	1	10		



	Farm women				
	Extension personnel	1	10		
	Civil society				
	NGO				
	Any other (Pl. specify)				
<b>Sponsored programmes</b>	Rural youth	1	10		
	Farmers				
	Farm women				
	Extension personnel				
	Civil society	1	10		
	Any other (Pl. specify)				

Activity (under Soil Science)	Thematic area	Target		Achievement	
		No. of demonstration	No. of beneficiary	No. of demonstration	No. of beneficiary
Method demonstration	1. Biofertilizer application	1			
	2. Vermicomposting	1			
Diagnostic visits	1. Pest appearance	1			

#### PRODUCTION OF BIO FERTILIZERS/ VERMICOMPOST ETC

Product	Quantity (qt)	
	Target	Achievements

#### DISCIPLINE: PLANT PROTECTION (ENTOMOLOGY/ PLANT PATHOLOGY)

Activities	Thematic Area	Crop/ cropping System	Target			Achievement		
			OFT (No.)	Trial (No.)	Area (ha)	OFT (No.)	Trial (No.)	Area (ha)
OFT	IPM/IDM	Jute	1	3	0.40			
		Vegetables	1	3	0.10			
	Biological control (Insect/pest/weeds etc)	1	3	0.20				
	Product evaluation (Efficacy)							
	Beneficial insect							
Beneficial organisms								

	Store grain pest	Pulses	1	3	-		
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Activities	Thematic Area	Crop/ cropping System	Target		Achievement	
			FLD (No.)	Area (ha.)	FLD (No.)	Area (ha.)
FLD	IPM/IDM					
	Biological control (Insect/pest/ weeds etc)	Rice (Summer)	3	3.0		
	Product evaluation (Efficacy)					
	Beneficial insect	Indian bee	1	5units		
	Beneficial organisms	Mushroom	1	5units		

Training activities (under Soil Science)	Participants	Target		Achievement	
		No. of programmes	No. of beneficiary	No. of programmes	No. of beneficiary
Short term courses	Rural youth	4	40		
	Farmers	6	120		
	Farm women				
	Extension personnel	2	20		
	Civil society				
	Any other (Pl. specify)	1	10		
Vocational programmes	Rural youth	1	10		
	Farmers	1	10		
	Farm women				
	Extension personnel	1	10		
	Civil society				
	NGO				
Sponsored programmes	Rural youth	1	10		
	Farmers				
	Farm women				
	Extension personnel				
	Civil society	1	10		
	Any other (Pl. specify)				

Activity (under Soil Science)	Thematic area	Target		Achievement	
		No. of demonstration	No. of beneficiary	No. of demonstration	No. of beneficiary
Method demonstration	1.Apiary mgmt	1			
	2.Mushroom cultivation	1			

Diagnostic visits	1.Diseases of honey bee	1			
	2.Appearance of pest in crops	3			

**PRODUCTION OF BIOGENESIS/ BIOAGENTS:**

Product	Quantity (No/ qt)	
	Target	Achievement

**DISCIPLINE: ANIMAL HUSBANDRY**

Activities	Thematic Area	Livestock/Bird	Target			Achievement		
			OFT (No.)	Trial (No.)	Area (ha)/Unit/Beneficiary	OFT (No.)	Trial (No.)	Area (ha)/Unit/Beneficiary
OFT	Breed introduction	Piggery	1	3	6			
	Breed improvement							
	Feeding management	Pig	1	3	3			
	Health and clinic							
	Housing	Poultry	1	3	3			
	Processing/ Value addition							
	Fodder quality	Perennial fodder	1	3	0.5			
	Pasture management	Natural grassland	1	2	0.20			

Activities	Thematic Area	Livestock/ Bird	Target		Achievement	
			FLD (No.)	Area (ha.) /Unit/Beneficiary	FLD (No.)	Area (ha.) /Unit/Beneficiary
FLD	Breed introduction	Chara chambeli	1	120 nos.		
	Breed improvement	Beetal	1	5nos.		
	Feeding management					
	Health and clinic	Dairy	1	20		
	Housing					
	Processing/ Value addition					
	Fodder quality					
	Pasture management					

Training activities (under Animal Husbandry)	Participants	Target		Achievement	
		No. of programmes	No. of beneficiary	No. of programmes	No. of beneficiary

<b>20Short term courses</b>	Rural youth	4	40		
	Farmers	7	140		
	Farm women				
	Extension personnel	1	10		
	Civil society				
	Any other (Pl. specify)	1	10		
<b>Vocational programmes</b>	Rural youth	1	10		
	Farmers	1	10		
	Farm women	1	10		
	Extension personnel				
	Civil society				
	NGO				
	Any other (Pl. specify)				
<b>Sponsored programmes</b>	Rural youth	1	10		
	Farmers				
	Farm women				
	Extension personnel				
	Civil society	1	10		
	Any other (Pl. specify)				

<b>Activity (under Animal Husbandry)</b>	<b>Thematic area</b>	<b>Target</b>		<b>Achievement</b>	
		<b>No. of demon./visit</b>	<b>No. of beneficiary</b>	<b>No. of demon./visit</b>	<b>No. of beneficiary</b>
Method demonstration					
Diagnostic visits	1.Diseases of poultry	1			
	2.Diseases of goat	1			

**PRODUCTION:**

<b>Item</b>	<b>Target(No.)</b>	<b>Achievements (No.)</b>

Activities	Thematic Area	Enterprise/Crop/ cropping System/	Target			Achievement		
			OFT (No.)	Trial (No.)	Area (ha)/ Unit/Beneficiary	OFT (No.)	Trial (No.)	Area (ha)/Unit/Beneficiary
OFT	Nutritional Gardening							
	Nutritional diet for children/ Pregnant women							
	Energy saving tools/ devices							
	Water harvesting devices including purification		1	3	5			
	Hygienic Sanitation							
	Organic dye introduction/ utilization							
	Utilization of waste materials (Bio-degraded/ non-degraded)							
	Storage techniques (grains/ fruits/ fishes/ meat etc)							
	Use of women friendly tools	Cereals/ Vegetables	1	3	5			
	Techniques of child care/ old age		1	2	5			

#### DISCIPLINE: HOME SCIENCE

Activities	Thematic Area	Enterprise/ Crop/ cropping System	Target		Achievement	
			FLD (No.)	Area (ha.)/Unit/ Beneficiary	FLD (No.)	Area (ha.)/Unit/ Beneficiary
FLD	Nutritional Gardening		3	10		
	Nutritional diet for children/ Pregnant women					
	Energy saving tools/ devices		3	5		
	Water harvesting devices including purification					
	Hygienic Sanitation					
	Organic dye introduction/ utilization		2	4		
	Utilization of waste materials (Bio-degraded/ non-degraded)					
	Storage techniques (grains/ fruits/ fishes/ meat etc)	Improved Duli	3	5		
	Use of women friendly tools					
	Techniques of child care/ old age					

Training activities (under Home Sc.)	Participants	Target		Achievement	
		No. of programmes	No. of beneficiary	No. of programmes	No. of beneficiary
Short term courses	Rural youth	1	10		

	Farmers	3	100		
	Farm women	2			
	Extension personnel	1	10		
	Civil society				
	Any other (Pl. specify)	1	10		
<b>Vocational programmes</b>	Rural youth	1	10		
	Farmers	1	10		
	Farm women	1	10		
	Extension personnel				
	Civil society				
	NGO	1	10		
	Any other (Pl. specify)				
<b>Sponsored programmes</b>	Rural youth				
	Farmers				
	Farm women	2	20		
	Extension personnel				
	Civil society	1	10		
	Any other (Pl. specify)				

Activity (under Home Sc.)	Thematic area	Target		Achievement	
		No. of demon./visit	No. of beneficiary	No. of demon./visit	No. of beneficiary
Method demonstration	1.				
	2.				
	3.				
	.....				
Diagnostic visits	1.				
	2.				

**PRODUCTION through training materials:**

Items	Target(No.)	Achievements (No.)	Remarks

**DISCIPLINE: AGROFORESTRY**

Activities	Thematic Area	Crop/ cropping System	Target			Achievement		
			OFT (No.)	Trial (No.)	Area (ha)	OFT (No.)	Trial (No.)	Area (ha)
OFT	Introduction of MPTs in existing Systems		1	3	0.10			
	Introduction of MPTs in newly Developed Systems							
	Introduction of high value crops/ livestock in different systems		1	2	0.10			
	Reclamation of degraded area with MPTs etc.		1	2	0.10			
	Introduction of biofuel species/ tress							

	Canopy Management (Pruning/ Topping)							
	Secondary forestry diversification (Bamboo/ Broomgrass etc.)		1	2	0.10			
	Secondary nursery promotion							
	Scientific nursery promotion							

Activities	Thematic Area	Crop/ cropping System	Target		Achievement	
			FLD (No.)	Area (ha.)	FLD (No.)	Area (ha.)
FLD	Introduction of MPTs in existing Systems					
	Introduction of MPTs in newly Developed Systems					
	Introduction of high value crops/ livestock in different systems					
	Reclamation of degraded area with MPTs etc.					
	Introduction of biofuel species/ tress					
	Canopy Management (Pruning/ Topping)					
	Secondary forestry diversification (Bamboo/ Broomgrass etc.)					
	Scientific nursery promotion					

Training activities (under Agroforestry)	Participants	Target		Achievement	
		No. of programmes	No. of beneficiary	No. of programmes	No. of beneficiary
<b>Short term courses</b>	Rural youth	1	10		
	Farmers	1	10		
	Farm women	1	10		
	Extension personnel	1	10		
	Civil society	1	10		
	Any other (Pl. specify) NGOs	1	10		
<b>Vocational programmes</b>	Rural youth	1	10		
	Farmers	1	10		
	Farm women	1	10		
	Extension personnel	1	10		
	Civil society				
	NGO				
<b>Sponsored programmes</b>	Any other (Pl. specify)				
	Rural youth	1	10		
	Farmers				
	Farm women				
	Extension personnel				
	Civil society	1	10		
Any other (Pl. specify)					

Activity (under Agroforestry)	Thematic area	Target		Achievement	
		No. of demon./visit	No. of beneficiary	No. of demon./visit	No. of beneficiary
Method demonstration	1.				
	2.				
	3.				
	4.				
Diagnostic visits	1.				
	2.				

**PRODUCTION (Seeds/ Planting materials):**

Seeds/ Planting materials	Target(No./ Quantity)	Achievements (No./ Quantity)

**DISCIPLINE: Agricultural Extension**

Activities	Thematic Area	Crop/ cropping System	Target			Achievement		
			OFT (No.)	Trial (No.)	Area (ha)	OFT (No.)	Trial (No.)	Area (ha)
OFT	Formation of Groups		4	-	40			
	Benchmark Survey (PRA etc)		4	-	-			
	Impact Assessment	Cereals	1		30 demos			
	Technology Backstopping							
	Dissemination time/ Loss of technologies							
	Coordination/ Convergence/ Linkages promoted/ Created							

Activities	Thematic Area	Crop/ cropping System	Target		Achievement	
			FLD (No.)	Area (ha.)	FLD (No.)	Area (ha.)
FLD	Formation of Groups					
	Benchmark Survey (PRA etc)					
	Impact Assessment					
	Technology Backstopping					
	Dissemination time/ Loss of technologies					
	Coordination/ Convergence/ Linkages promoted/ Created					

Training activities (under Agri. Extension)	Participants	Target		Achievement	
		No. of programmes	No. of beneficiary	No. of programmes	No. of beneficiary
Short term courses	Rural youth	2	20		



	Farmers	6	120		
	Farm women				
	Extension personnel	4	80		
	Civil society				
	Any other (Pl. specify)	1	10		
<b>Vocational programmes</b>	Rural youth	1	10		
	Farmers				
	Farm women				
	Extension personnel	1	10		
	Civil society				
	NGO				
	Any other (Pl. specify)				
<b>Sponsored programmes</b>	Rural youth				
	Farmers				
	Farm women				
	Extension personnel	1	10		
	Civil society	1	10		
	Any other (Pl. specify)				

Activity (under Agri. Extension)	Thematic area	Target		Achievement	
		No. of demon./visit	No. of beneficiary	No. of demon./visit	No. of beneficiary
Method demonstration					
Diagnostic visits	1.				
	2.				

#### DISCIPLINE: Fishery

Activities	Thematic Area	Crop/ cropping System	Target			Achievement		
			OFT (No.)	Trial (No.)	Area (ha)	OFT (No.)	Trial (No.)	Area (ha)
OFT	Pond Management		1	4	10			
	Fish Breeding							
	Feeding Management		1	3	5			
	Disease Management							
	Post Harvest		1	2	2			
	Value addition							
	IFS Modules							

Activities	Thematic Area	Crop/ cropping System	Target		Achievement	
			FLD (No.)	Area (ha.)	FLD (No.)	Area (ha.)
FLD	Pond Management					

	Fish Breeding					
	Feeding Management					
	Disease Management					
	Post Harvest					
	Value addition		2	2		
	IFS Modules	Piggery-Duckery Poultry-Fishery	2	4		

Training activities (under Agri. Extension)	Participants	Target		Achievement	
		No. of programmes	No. of beneficiary	No. of programmes	No. of beneficiary
Short term courses	Rural youth	1	10		
	Farmers				
	Farm women	1	10		
	Extension personnel				
	Civil society	1	10		
	Any other (Pl. specify)				
Vocational programmes	Rural youth	1	10		
	Farmers				
	Farm women	1	10		
	Extension personnel				
	Civil society				
	NGO	1	10		
Sponsored programmes	Rural youth	1	10		
	Farmers				
	Farm women	1	10		
	Extension personnel				
	Civil society	1	10		
	Any other (Pl. specify)				

Activity (under Agri. Extension)	Thematic area	Target		Achievement	
		No. of demon./visit	No. of beneficiary	No. of demon./visit	No. of beneficiary
Method demonstration					
Diagnostic visits	1.				
	2.				

**Production:**

Item	Target(No./ Quantity)	Achievements (No./ Quantity)
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**Varietal performance/ performance of early/ long duration rice varieties under upland/ lowland/ flood prone/ flood free etc situations.**

- Varietal performance of pulses/ oilseeds etc
- Integrated nutrient management in Rice/ Wheat/ Pulses/ Oilseeds/ Fodder crops etc
- Integrated pest management in Rice/ Wheat/ Pulses/ Oilseeds/ Fodder crops etc
- Biological control of pests/ nematodes etc
- Biological control of diseases of Rice etc/ Vegetables etc / fruit trees etc.
- Green manuring of crops with Serbenia/ Dhaincha etc
- Vermicomposting of crops.

**AGROFORESTRY:**

**Introduction of multipurpose tree species (MPTS)**

- In existing systems (Agri- Silvi/ Agri-Pasteur etc)
- Newly developed systems
- Planting under social farming programmes
- Introduction of high value crops/ livestock
- Planting MPTS in degraded areas
- Introduction of biofuel species/ trees
- Pruning/ Topping of trees
- Bamboo/ Broomgrass/ Wild S ac species- Forest diversification
- Scientific nursery promotion

**PIGGERY**

**Methods for restraining pigs**

- Restraining piglets on its side (for injection vaccination treatment)
- Restraining piglets by holding its rear legs (for transportation)

**Methods for restraining older/ heavier pigs**

- By using a snare
- Laying the animal on its side

**Methods for measuring body temperature and respiration**

CLIMATRIC	NORMAL RANGE
Respiration	
Young	50/ minute
Old	13-15/ minute
temperature	39 C

**Methods of administration of medicines and use of a few surgical equipments**

- Method of withdrawing medicine from a vial
- Intramuscular injection (into muscle)
- Subcutaneous injections (under the skin)

**Home Science**

- Nutritional gardening
- Nutritional diet for children
- Energy saving chullas
- Water harvesting devices including purification of drinking water
- Hygienic sanitation
- Organic dye utilization
- Utilization of waste materials/ biodegraded/ non-degraded
- Storage techniques (grains/ fruits/ fishes/ meat etc)

- Uses of women friendly tools/ implements
- Techniques of child care

### On Farm Trials

No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions (if any)					
				Title of OFT	Title of FLD	Title of Training	Title of training for extension personnel	Extension activities	Supply of seeds, planting materials
1	Horticulture( Varietal performance , Integrated Weed Management ,Orchard rejuvenation, Canopy management ,Mechanization Drip irrigation)	French bean, tomato, Water melon, Potato, banana	Low yield of existing varieties	i. Evaluation of high yield tomato variety "H-24" ii. Evaluation of French bean var. Arka Anup iii. Integrated Weed Management of tomato iv. Rejuvenation of old Khasi Mandarin Orchard v. Canopy Management of Assam Lemon vi. Drip irrigation in banana	i. Varietal performance in water melon ii. Irrigation management in potato (Var. Kufri Jyoti) iii. Introduction of Malbhog banana cultivation into new areas	i. Commercial cultivation of winter vegetables ii. Irrigation management in field crops iii. Cultivation of export potential vegetable crops iv. Scientific cultivation of malbhog banana	-	i. Field day ii. Radio talk iii. Publication of bulletin iv. Diagnostic and clinical services v. Popular article vi. Advisory services	Seed, fertilizers , pesticides

2	Crop production (Varietal performance Integrated Weed Management ,Tillage management /Farm machinery, Integrated crop Management )	Rice, Toria, Lentil, Maize	Yield gap due to poor adoption of improved varieties and package of practices	i. Utera cropping of toria with Sali rice ii. Varietal performance of olitorius jute iii. Integrated weed management in direct seeded summer rice	i. Integrated nutrient management in Sali rice ii. Varietal performance in Sali rice (var. Gitesh) iii. Varietal performance of improved varieties (Var. Dinanath & Swarnabh) iv. System of rice intensification v. Improved production practices of hybrid maize vi. Integrated nutrient management of toria vii. Integrated crop management of toria viii. Integrated crop management of lentil	i. Resource conservation technologies in agriculture ii. Recent developments in oilseed and pulse cultivation iii. Hybrif maize cultivation technologies	i. Productivity enhancement in field crops	i. Diagnostic and clinical services ii. Radio talk iii. Publication of bulletin iv. Field day v. Method demonstration vi. Popular article vii. Advisory services	Seed, fertilizers ,pesticides
3.	Plant protection (IPM, Biological control, Storage grain pest )	Olitorius Jute, Brinjal, tomato, lentil, summer rice	Yield reduction due to pest infestation	i. Integrated pest management module for olitorius jute ii. Integrated pest management module of brinjal shoot and fruit borer iii. Management of bacterial wilt in tomato iv. Storage insect pest management in lentil	i. Performance of biocontrol agent <i>Trichogramma japonicum</i> against rice stem borer in summer rice	i. Biological control methods in field crops. ii. Integrated pests management in vegetables iii. Scientific cultivation technology of oyster mushroom	i. Integrated pest and disease management in fibre crops ii. Organic pest management practices in agriculture	i. Publication of bulletin ii. Radio talk iii. Diagnostic and clinical services iv. Method demonstration v. Popular article vi. Advisory services	Seed, fertilizers , pesticides, biocontrol agent, other necessary inputs
	Plant protection (Beneficial insect)	Indian bee	Lack of motivation in commercialization of honey bee rearing	-	i. Front line Demonstration on apiary	i. Honeybee rearing for self employment	-	i. Popular article ii. Method demonstration iii. Advisory services	All critical inputs

	Plant protection (Beneficial organisms)	Mushroom	Knowledge gap in mushroom cultivation	-	i. Scientific cultivation of Oyester mushroom	i. Scientific cultivation of mushroom	-	i. Popular article ii. Diagnostic and clinical services iii. Method demonstration iv. Advisory services	All critical inputs
4.	Soil Science (Soil management, Soil amendment (lime/others), Soil biology (BGA/Azolla), Soil microbes (beneficial)	Rice, toria, lentil, vermicompost	Injudicious use of chemical fertilizers and low nutrient content in soil	i. Green manuring in Sali rice ii. Application of Azolla ( <i>Azolla caroliniana</i> ) in Boro paddy under irrigated condition for the season 2012-13 iii. Potash management in lentil iv. Lime amendment in toria for the rabi season 2012-13	i. Production of low cost vermicompost ii. Borax application in toria production for the rabi season 2012-13	i. Soil fertility management. ii. Soil & water conservation iii. Integrated nutrient management iv. Management of problematic soils v. Nutrient use efficiency vi. Soil testing vii. Production of organic inputs viii. Vermicomposting	i. Integrated nutrient management	i. Diagnostic and clinical services ii. Radio talk iii. Publication of bulletin iv. Field day v. Method demonstration vi. Popular article vii. Advisory services	Seed, fertilizers, pesticides, BGA. And other necessary inputs
5.	Animal Husbandary (Breed introduction, Breed improvement, Fodder quality, Health & clinic)	Livestock (Poultry, Goat)	Low productivity of local breed	i. Rearing of Improved variety of pig ii. Small Scale intensive system of Poultry rearing iii. Production of quality fodder	i. Rearing of chara chameli duck ii. Upgradation of local goat (Breed Beetal)	i. Commercial poultry farming ii. Scientific rearing of pig iii. Rearing of goat for self employment	i. Recent advancement in veterinary science	i. Popular article ii. Publication of bulletin iii. Radio talk iv. Diagnostic and clinical services v. Advisory services	Improved breeds, balanced feed
6.	Home Science (Nutrition gardening, Storage techniques, organic dye Introduction /utilization, Energy saving tools/devices, Techniques of child care, Use of women friendly tools)	Vegetable and fruit production Improved Duli	Labour intensive storage structure	i. Evaluation of utility of improved sickle ii. Assam Mix as a supplementary food	i. Popularization of Nutrition Gardening ii. Popularization of Improved Structure of Grains iii. Use of natural dyes in handloom products iv. Use of Improvised grain spreading tools for drudgery reduction.	i. Designing & development for high nutrient efficiency diet ii. Income generation activities for empowerment of rural women iii. Post harvest technology	i. Women & child care	i. Method demonstration ii. Publication of bulletin ii. Advisory services	Seed and planting material, FYM and organic pesticide, Storage structure, Fabric, Chemicals & other needed inputs

7.	Agricultural Extension {Formation of groups, Benchmark survey (PRA etc.), Impact Assessment}	Cereals		i. Self Help Group formation, Farmers' club formation ii. Conducting Participatory Rural Appraisal (PRA) iii. Impact assessment of cereals crops cropping system		i. Leadership development in villages ii. Formation & management of SHGs iii. Entrepreneurship development of farmers / youths iv. WTO & IPR issues	i. Formation & management of SHGs ii. Gender mainstreaming through SHGs	i. Semi structured questionnaire ii. Field visit	
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**Notes (to be strictly followed in formulation of OFTs):**

Technology Assessment refers to any technology (preferably new) going for assessment through OFT for the first time in a micro location.

Technology Refinement refers to an already assessed technology getting refined through OFT to suit micro location needs for later demonstration.

*If any OFT is proposed for refinement, kindly mention whether the technology was assessed earlier or not. If not, provide reasons.*

Technologies older than 5 years have to be preferably avoided for OFTs

**Examples:**

Technology selected for assessment (and/or) refinement (Ex: Rice Var: XXXXXX)

Source of technology with year of release (Ex: ICAR RC NEH, Barapani, 2007)

Production system and thematic area (Ex: Crop production & Weed management)

Performance indicators of the technology (Ex: Yield, Shelf life etc)

**Details of On Farm Trials to be undertaken during 2012-13 (Target)**

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	Assessment/ Refinement (WRITE A / R)	No. of trials*
1	2	3	4	5	6
Rice	Rainfed	Deterioration of soil health	Green manuring in Sali rice	A	3
Rice	Irrigated	Injudicious use of chemical fertilizers	Application of Azolla ( <i>Azollacaroliniana</i> ) in Boro paddy under irrigated condition for the season 2012-13	A	3
Toria	Rainfed	Deterioration of soil health & injudicious use of chemical fertilizers	Lime amendment in toria for the rabi season 2012-13	A	3
Lentil	Rainfed	Low potash content in sandy to sandy loam soil	Potash management in lentil	A	3
Summer rice	Irrigated	Yield reduction due to weed infestation	Integrated weed management in direct seeded summer rice	A	3
Toria	Rainfed	High cost of production in toria	Utera cropping of toria with Sali rice	A	3
Jute	Rainfed	Yield reduction in local varieties	Varietal evaluation of olitorius jute	A	3
Olitorius jute	Rainfed	Yield reduction due to pest infestation	Integrated pests management module for olitorius jute	A	3
Brinjal	Irrigated	Yield reduction due to disease infestation	Integrated pest management module of brinjal shoot and fruit borer	A	3
Tomato	Irrigated	Yield reduction due to disease infestation	Management of bacterial wilt in tomato	A	3
Lentil	Rainfed	Seed quality deterioration during	Storage insect pest management in	A	3

		storage	lentil		
French bean	Irrigated	Low yield of existing varieties	Evaluation of French bean var. Arka Anup	A	3
Tomato	Irrigated	Low yield of existing varieties	Evaluation of high yield tomato variety "H-24"	A	3
Tomato	Irrigated	Yield reduction due to weed infestation	Integrated Weed Management of tomato	A	3
Khasi Mandarin	Rainfed	Yield reduction of old Orchard	Rejuvenation of old Khasi Mandarin Orchard	A	3
Assam Lemon	Rainfed	Yield reduction in Assam Lemon	Canopy Management of Assam Lemon	A	3
Banana	Irrigated	Irrigation management in banana	Drip irrigation in banana	A	3
Livestock (Pig)			Rearing of Improved variety of pig	A	5
Livestock (poultry)	Livestock farming	Low production in scavenging system	Small Scale intensive system of Poultry rearing	A	5
Perennial fodder	Perennial fodder		Production of quality fodder	A	5
Cereals/Vegetables		Reduction of drudgery of farm women	Evaluation of utility of improved sickle	A	3
		Improve quality of infant feeding	Assam Mix as a supplementary food	A	3
			Self Help Group formation, Farmers' club formation	A	3
			Conducting Participatory Rural Appraisal (PRA)	A	3
Cereals	Rainfed/ Irrigated		Impact assessment of cereals crops cropping system	A	3

\* No. of farmers

Technology assessed/refined	Year of release of technology	Whether the technology is latest one available? (Y/N)*	If NO, then reason for using the old technology for OFT (in detail)	Parameters of assessment
6				7
(i) Application of 100% of recommended dose of fertilizer (i.e. @60:20:40 kg NPK/ha) (ii) Application of Green manure and 75% of recommended dose of fertilizer (iii) Application of Green manure and 50% of recommended dose of fertilizer	Assam Agricultural University, Jorhat-13 Package of practices for kharif season 2010	Y		i. Agronomic parameters- Average Plant height, Average Number of Panicle per plant, Average Yield ii. Soil nutrient status (like available NPK, P <sup>H</sup> , OC etc) before and after conducting the OFT and iii. Economic analysis
(i) Application of 100% of recommended dose of fertilizer (i.e. @60:30:30 kg NPK/ha) (ii) Application of Azolla @ 500kg/ha and 75% of recommended dose of N fertilizer and full dose of P and K fertilizer/ha (iii) Application of Azolla @ 500kg/ha and 50% of recommended dose of N fertilizer and full dose of P and K fertilizer/ha	Assam Agricultural University, Jorhat-13	Y		i. Agronomic parameters- Average Plant height, Average Number of Panicle per plant, Average Yield ii. Soil nutrient status (like available NPK, P <sup>H</sup> , OC etc) before and after conducting the OFT and iii. Economic analysis
(i) Application of 100% of	Assam Agricultural	Y		i. Agronomic parameters-



recommended dose of fertilizer (i.e.@ 40:35:15 kg NPK/ha) (ii) Application of CaCO <sub>3</sub> (dolomitic lime) @ 65.5 kg per bigha 15 days before seeding and incorporation in the soil in areas where multiple cropping is practiced along with 100% of recommended dose of fertilizer @ 40:35:15 kg NPK/ha	University, Jorhat-13 Package of practices for Rabi season 2010			Average Plant height, Average Number of branches per plant, Average Number of siliqua per plant, Average number of seed per siliqua, Average Yield ii. Soil nutrient status (like available NPK, P <sup>H</sup> , OC etc) before and after conducting the OFT and iii. Economic analysis
(i) Application of 15 kg N, 35 kg P <sub>2</sub> O <sub>5</sub> & 0 kg K <sub>2</sub> O/ha (ii) Application of 15 kg N, 35 kg P <sub>2</sub> O <sub>5</sub> & 15 kg K <sub>2</sub> O/ha	Under pipeline	Y		i. Agronomic parameters- Average Plant height, Average Number of branches per plant, Average number of pod per plant, Average number of seed per pod, Average Yield ii. Soil nutrient status (like available NPK, P <sup>H</sup> , OC etc) before and after conducting the OFT and iii. Economic analysis
Weeding with wheel hoe, dry land weeder or manual weeding followed by laddering 3-4 weeks from sowing & at 2-3 weeks after 1 <sup>st</sup> weeding. Pre-emergence herbicide butachlor @ 2.0k g a.i. /ha after 2-3 days of sowing or post emergence haricide 2.4-D @0.8 kg a.i. /ha at 2-3 leaf stage of dicot weeds & sedges or 25-30 days after emergence of rice	Dept. Of Agronomy, AAU, Jorhat-13	Y		i. Temp. ii. Rainfall iii. Date of sowing iv. Date of harvesting v. Weed dry weight at 30, 60 DAT and at harvest vi. Yield and yield component vii. Economics
Broadcast sowing of Toria with higher seed rate at 2-3 days before harvesting of Sali rice. 3/4 <sup>th</sup> of recommended N fertilizer as basal dressing 1-2 days before sowing of toria & remaining 1/4 <sup>th</sup> N as 2% urea solution spray at flower bud formation stage.	Regional Agricultural Research Station Assam Agricultural University Shilongoni, Nagaon - 782002 2011	Y		i. Temp. ii. Rainfall iii. Date of sowing iv. Date of harvesting of toria v. Moisture status of the soil before sowing vi. Date of harvest of paddy and its duration vii. Date of fertilizer application for toria viii. Incidence of pests and diseases xi. Plant height, plant stand and yield of toria
Use of high yielding & disease resistant recommended variety of "Tarun" with improved crop management practices	Regional Agricultural Research Station Assam Agricultural University Shilongoni, Nagaon - 782002 2011	Y		i. Temp. ii. Rainfall iii. Date of sowing iv. Date of harvesting v. Plant height at 30, 60 DAS & at harvest vi. Yield & yield components vii. Economics
i. Application of <i>trichoderma viride</i> @ 2.5 kg/ha before sowing of seeds. ii. One manual weeding and thinning 3-4 weeks after emergence. iii. Two sprays of neem oil @ 5 ml/lit of water iv. Need based spraying of quinalphos @ 2.5 ml/lit of water on incidence of insect pests	2011	Y		i. Disease incidence % ii. Insect pest incidence % iii. Yield record iv. Farmers reaction
i. Collection and destruction of adult, larvae and egg masses of shoot and fruit borer. ii. Clipping and destruction of infested fruit and shoots. iii. Application of wood ash @ 200 Kg/ha	Department of Entomology, AAU, Jorhat (NATP Project Report, 2007-08)	Y		i. No. of infected plants at 10 days interval ii. yield record iii. Farmers reaction

iv. Six releases of <i>Trichogramma chilonis</i> @ 50000 eggs/ha/week v. Need based application of chemical pesticides: Deltamethrin @ 0.05% i.e. 2 ml/lit. of water				
i. Seed treatment with Biofor Pf 2 @ 1 gm/ 10 gm seed for 1-2 hours ii. Seedling root dip treatment with Biofor Pf 2 @ 1 Kg in 2 liter of water for 1000 seedlings for 3-4 hours. iii. Soil application of Biofor Pf 2 @10 gm per 100 gm dry cowdung per plant	AAU, Jorhat	Y		i. No. of infected plants at 10 days interval ii. Yield record iii. Farmers reaction
i. Bringing down of moisture content of lentil seed to <10% by placing them under sunlight and cool it for at least 3 hours under shade. ii. Mix black pepper powder @ 3 gm/kg of seed before storage. iii. Air tight packing of treated pulse seed in polythene bag and place them in jute bags/other bags	RARS, Shillongoni	Y		Types of pests attacking, % infestation at different time interval, No. of insect/100 gm seed, storage period without infestation farmers reaction
High yielding French bean Variety "Arka Anup"	2011	Y		i. No. of pods ii. Yield
High yielding Variety tomato "H-24"	2011	Y		i. Fruits per plant ii. Yield
Weed control by – i. Pre-emergence application of Metolachlor @ 1 kg a.i./ha ii. Application of Grubber at 40 DAP iii. Hoeing at 20 and 40 DAP	Package of Practices for Horticultural Crops of Assam, 2010	Y		i. Plant height ii. Fruits/plant iii. Fruit size iv. Yield v. Weed population
Rejuvenation schedule – i. Pruning: unwanted, diseased and pest infected branches and twigs to be removed during Jan/Feb ii. Correction of soil pH: Application of 1 kg of Agricultural lime/plant during Jan/Feb iii. INM: Application of N, P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O @ 600 g, 300 g and 600 g per plant alongwith 7.5 kg Mustard Oil cake during Sept/Oct and March/Apr. Application of Green Harvest Crop Booster @ 25 g with 50 g ZnSO <sub>4</sub> and 100 g urea in 10 lit water iv. Integrated management of pests and diseases: If noticed control measures to be taken up v. Weed management: Hand weeding at bimonthly interval	Package of Practices for Horticultural Crops of Assam, 2010	Y		i. Fruits/plant ii. Fruit size iii. Yield iv. Pest and disease incidence
During winter – i. cutting of branches touching ground without leaving any stub ii. Removal of a. diseased, injured, criss-cross branches b. water sprouts	Package of Practices for Horticultural Crops of Assam, 2010	Y		i. Fruits/plant ii. Fruit size iii. Yield iv. Pest and disease incidence
Drip irrigation at 75% EpR during Nov - March	Package of Practices for Horticultural Crops of Assam, 2010	Y		i. Plant height ii. Leaf No. iii. Fruits/plant iv. Fruit size v. Yield
A total of 9 numbers of Improved varieties of pig (Breed: upgraded local pigs with pure Hampshire- F1/F2 generation) will be reared in backyard system with a hard size of 3 per farmer (2 female and 1male) in 3 farmer household. The pigs will be reared in house made up of bamboo	2008	Y		i. Monthly weight gain ii. Age at first fertile service/conception iii. No of piglet obtained iv. Piglet mortality v. Disease incidence

and locally available material with concrete floor. The feeder and water trough will also be made up of bamboo or locally available material. The pig will be fed with concentrate feed as well as non conventional feed materials. This system will help the local resource poor farmers to get maximum benefit from pig in terms of body weight gain with low input against the poor performance of the local non descript variety of pig. Further the scientific feeding and management will also help them in maximize the profit				
A total of 100 numbers of Improved dual purpose chicken (Breed: Vanaraja) will be reared in intensive system with a hard size of 20 per farmer in 5 farmer household. The birds will be reared in house made up of bamboo and locally available material. The feeder and water trough will also be made up of bamboo. The bird will be fed with concentrate feed as well as non conventional feed materials. This system protects them from harsh weather, predator and promotes weight gain reducing the weight loss in scavenging system. This system also helps in availability of poultry manure which is rich organic manure	2008	Y		i. Monthly weight gain ii. Age at first egg iii. Egg production in first 6 month iv. Average egg weight v. Disease incidence
Improved Production Technology of Fodder Oat ( <i>Avena sativa</i> ) (Var:Kent) Time of Showing: Mid Oct-December) Seed rate : 100 Kg/Ha Spacing : 25-30 cms (Row-Row) Fertilizer dose: N: P <sub>2</sub> O <sub>5</sub> :K <sub>2</sub> O= 40:20:20 Kg/Ha	AAU, Jorhat	Y		i. Date of Showing ii. Date of Harvesting iii. Gross fodder production after first cut iv. Average time of 50% flowering v. Total Fodder production vi. Economics
<b>Specification of tool:</b> Overall length 412mm. width 167mm. height 87mm. Type of cutting edge Serrated, No of teeth/cm 4-5. Length of cutting edge 240mm. Averageperipheral length at the grip 125mm. Approx. weight 260gm. Material- Blade - Carbon steel, Handle Wood; Joint of blade & handle - Blade rivetted to thehandle; Actual field capacity 0.011 ha/hr.	Central Institute of Agricultural Engineering (CIAE), Bhopal.	Y		i. Drudgery reduction ii. Output/min
Preparation of Assam Mix: Ingredients /100g:Rice- 70 gm, Moong dal- 20 gm, sesame- 5g, ground nut- 5g. Method: <b>Rice</b> - Clean rice and soak in water for 2-3 hours, drain waterand grind into flour and sieve, roast the flour. <b>Moong dal, groundnut and gingelly seed</b> -Clean all the ingredients properly, Roast the three ingredientsseparately, Remove skin from groundnuts, grind three ingredients,separately and sieve and mix together all the ingredients properly. <b>Feeding:</b> Twice daily either cooked with milk and sugar or with dal/ vegetable soup.	College of Home Science, AAU, Jorhat. 1990	N	Non availability of suitable cost effective technology	Growth of infant- i)Height, ii)Weight, iii)Mid-arm circumference and iii) Head circumference.
i. Motivation for formation of groups/farmers' club ii. Conducting meeting in the villages for formation of groups/farmers' club				i. Change in income of the group ii. Generation of employment after the formation of group

iii. Opening of bank account, maintains of account, time to time follow up				
i. Transact walk ii. Village mapping iii. Time line iv. Matrix ranking v. Resource inventory				
Conducting meeting in the villages about socio-economic adoptability of the technology				i. change in yield of the crop with local checks. ii. Incidence of pest and diseases. iii. Finding of Benefit Cost ratio
Impact analysis through semi structured questionnaire	NA	NA	NA	As per schedule

\* The technology should be less than 5 years old.

## Frontline Demonstrations

Details of FLDs to be implemented during 2012-13 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

**Notes (to be strictly followed in formulation of FLDs):**

FLDs are conducted only on proven technologies.

FLDs are conducted on previously assessed/refined technologies which are found suitable for the KVK district.

Only latest technologies have to be selected for FLDs (Preferably less than 5 years old).

**Examples:** Same as in case of OFTs

### 1. Cereal Crops

No	Crop	Thematic area	Technology to be Demonstrated	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for FLD in the district?	Area (ha)		No. of farmers/demonstration		
							Proposed	SC/ST	Others	Total	
1.	Rice	Integrated crop management	Integrated nutrient management in Sali rice	Kharif, 2012	Y		1.0	2	2	4	
1.	Rice	Varietal performance	Varietal performance in Sali rice (Var. Gitesh)	Kharif, 2012	Y		2.0	3	2	5	
2.	Rice	Varietal performance	Varietal performance of improved varieties (Var. Dinanath & Swarnabh)	Summer, 2013	Y		2.0	4	2	6	
3.	Rice	Integrated crop management	System of rice intensification	Summer, 2012-13							
4.	Rice	Plant protection	Performance of biological control agent <i>Trichogramma japonicum</i> in summer rice	Summer, 2012-13	Y		5.0	6	4	10	
5	Maize	Integrated crop management	Improved production practices of hybrid maize	Rabi, 2012-13	Y		2.0	2	3	5	

### B. Oilseed crops

No.	Crop	Thematic area	Technology to be Demonstrated	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for FLD in the district?	Area (ha)		No. of farmers/demonstration		
							Proposed	SC/ST	Others	Total	
1.	Toria	Integrated crop management	Integrated nutrient management in toria	Rabi, 2012-13	Y		1.0	2	3	5	
2.	Toria	Integrated crop management	Integrated crop management in toria	Rabi, 2012-13	Y		1.0	2	2	4	

3.	Toria	Soil management	Borax application in toria production for the rabi season 2012-13	Rabi, 2012-13	Y		5.0	5	5	10
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### C. Pulse Crops

No.	Crop	Thematic area	Technology to be Demonstrated	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for FLD in the district?	Area (ha)		No. of farmers/demonstration		
							Proposed	SC/ST	Others	Total	
1	Lentil	Integrated crop management	Integrated crop management of lentil	Rabi, 2012-13	Y		2.0	6	2	8	

### D. Horticultural Crops

No.	Crop	Thematic area	Technology to be Demonstrated	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for FLD in the district?	Area (ha)		No. of farmers/demonstration		
							Proposed	SC/ST	Others	Total	
1.	Water melon	Integrated crop management	Integrated crop management of water melon	Rabi, 2012-13	Y		5.0	8	5	13	
2.	Potato	Integrated crop management	Integrated crop management of potato	Rabi, 2012-13	Y		5.0	4	8	12	
3.	Banana	Integrated crop management	Introduction of Malbhog banana cultivation into new areas	Kharif, 2012	Y		1.0	5	2	7	
4.	Assam lemon	Canopy management	Canopy Management of Assam Lemon	Rabi, 2012-13	N	As per AAU recommendation	1.0	2	1	3	
5.	Vegetable and fruit production	Nutrition gardening	Year round cultivation of fruits and vegetables according to package of practices of respective crop to meet the nutritional requirement of whole family.	Rabi, 2012-13	N	As per AAU recommendation	0.03	2	1	3	

**Extension and Training activities proposed under FLD**

No.	Activity	No. of activities	Tentative Date	Number of participants	Remarks
1.	Field Day	5	January, 2013	30	Under FLD on Water management in Potato
			February, 2013	30	Under Rabi Oilseed Programme
			February, 2013	30	Under Rabi Pulse Programme
			March, 2013	30	Under FLD on Water melon
			March, 2013	30	Under FLD on Biocontrol in summer rice
2.	Training	3	October, 2013	25	Resource conservation technologies in agriculture
			December, 2013	25	Organic pest management practices in agriculture
			December, 2013	25	Improved cultivation practices in water melon
3.	Farmers' Scientist Interaction	1	January, 2013	50	-
4.	Extension Bulletin	4	-	-	-

**(i) Farm Implements:**

No.	Crop/ Enterprise	Thematic area	Name of the implement	Season and year	Whether the technology assessed/refined by KVK earlier (Y/N)?	If not, how the technology was proven as suitable for the district?	Area (ha)		No. of farmers/demonstration		
							Proposed		SC/ST	Others	Total
1.	Duli	Storage techniques (grains)	Improved Duli	2012-13	N	The implement has already been proven for drudgery reduction to a large extent	5 No.		5	0	5

**(ii) Livestock Enterprises:**

Enterprises	Breed	No. of farmers	No. of animals, poultry birds etc.	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Livestock (Duck)	Chara Chambeli	5	125	i. Monthly weight gain ii. Age at first egg production iii. Average egg weight iv. Egg production in six months v. Disease incidence	NA	NA	NA	NA
Livestock (Goat)	Beetal cross	3	3	i. No. of kid obtained per kidding ii. Monthly weight gain of the beetal leuck supplied at field condition iii. Monthly weight gain of the upgraded kids at field condition iv. Age at first service v. Age at first kidding vi. Disease incidence of the upgraded kid vii. Disease incidence of the beetal leuck supplied	NA	NA	NA	NA

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

## (iii) Other Enterprises:

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom	Oyester mushroom	5	5	i. Yield record ii. Farmers reaction	NA	NA	NA	To popularize the technology amongst the farming communities
Indian bee	Indian bee, <i>Apis cerana indica</i>	5	5	i. Honey production/year ii. Farmers reaction	NA	NA	NA	To aware farmers about scientific rearing technique
Vermi- compost	Vermicomposting	5	5	i. Production record ii. Farmers reaction	NA	NA	NA	To popularize the technology amongst the farming communities
	organic dye Introduction /utilization	4	4	Fastness of dye against sunlight, cost efficiency	NA	NA	NA	To aware farmwomen about organic dye utilization
	Energy saving tools/devices	5	5	Drudgery reduction, Output/min	NA	NA	NA	To aware farmwomen about energy saving tools/devices



**PART – III**

**(TRAINING PROGRAMMES)**

**3. Details of proposed training programmes (Including the sponsored and FLD training programmes)**

**Note: The proportion of SC and ST participants for all training programmes should match with their proportion in the population of the KVK district.**

**Off Campus**

Thematic area	Courses (No)	No. of participants									Grand Total
		Others			SC			ST			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>											
<b>I Crop Production</b>											
Weed Management	1	4	1	5	5	2	7	8	5	13	25
Nutrient Management											
Resource Conservation Technologies	1	2	1	3	7	3	10	10	2	12	25
Cropping Systems	1	4	1	5	6	4	10	5	5	10	25
Crop Diversification	1	4	2	6	7	5	12	5	2	7	25
Integrated Farming systems	1	3	2	5	4	1	5	5	10	15	25
Water management	2	6	4	10	10	5	15	16	9	25	50
Seed production											
Nursery management											
Integrated Crop Management											
Fodder production	1	1	1	2	6	4	10	10	3	13	25
Production of organic inputs											
<b>II Horticulture</b>											
<b>a) Vegetable Crops</b>											
Production of low volume and high value crops	1	4	0	4	0	0	0	21	0	21	25
Off-season vegetables											
Nursery raising											
Exotic vegetables production											
Production of export potential vegetables	1	3	1	4	1	0	1	18	2	20	25
Grading and standardization											
Protective cultivation (Green Houses, Shade Net etc.)	1	18	2	20	0	0	0	4	1	5	25
<b>b) Fruits</b>											
Training											
Pruning											
Layout and Management of Orchards											
Cultivation of Fruit crops	2	28	6	34	0	0	0	14	2	16	50
Management of young plants/orchards											
Rejuvenation of old orchards	1	0	0	0	0	0	0	25	0	25	25
Cultivation of export potential fruits											
Micro irrigation systems of orchards											
Plant propagation techniques	1	3	1	4	1	0	1	18	2	20	25
<b>c) Ornamental Plants</b>											
Nursery Management	1	2	3	5	0	2	2	4	14	18	25
Management of potted plants											
Production of export potential ornamental plants											
Propagation techniques of Ornamental Plants											
<b>d) Plantation crops</b>											
Production and Management technology	1	6	2	8	0	0	0	14	3	17	25
Processing and value addition											
<b>e) Tuber crops</b>											

Production and Management technology											
Processing and value addition											
<b>f) Spices</b>											
Production and Management technology	1	4	4	8	1	1	2	12	3	15	25
Processing and value addition											
<b>g) Medicinal and Aromatic Plants</b>											
Nursery management											
Production and management technology											
Post harvest technology and value addition											
<b>III Soil Health and Fertility Management</b>											
Soil fertility management	2	12	3	15	15	5	20	10	5	15	50
Soil and Water Conservation	1	8	0	8	10	0	10	7	0	7	25
Integrated Nutrient Management	3	17	5	22	20	5	25	20	8	28	75
Production and use of organic inputs											
Management of Problematic soils	1	8	0	8	9	0	9	8	0	8	25
Micro nutrient deficiency in crops											
Nutrient Use Efficiency	1	5	2	7	5	3	8	6	4	10	25
Soil and Water Testing	1	5	2	7	5	2	7	8	3	11	25
<b>IV Livestock Production and Management</b>											
Dairy Management	1	12	0	12	8	3	11	1	1	2	25
Poultry Management	2	24	4	28	12	6	18	2	2	4	50
Piggery Management	2	2	2	4	6	12	18	24	4	28	50
Rabbit Management											
Disease Management	2	22	4	26	6	10	16	4	4	8	50
Feed management											
Production of quality animal products											
<b>V Home Science/Women empowerment</b>											
Household food security by nutrition gardening											
Design and development of low/minimum cost diet											
Designing and development for high nutrient efficiency diet	1	2	6	8	2	6	8	1	8	9	25
Minimization of nutrient loss in processing											
Gender mainstreaming through SHGs											
Storage loss minimization techniques											
Value addition											
Income generation activities for empowerment of rural Women	2	0	15	15	0	20	20	0	15	15	50
Location specific drudgery reduction technologies											
Rural Crafts											
Women and child care											
<b>VI Agricultural Engineering</b>											
Installation and maintenance of micro irrigation systems											
Use of Plastics in farming practices											
Production of small tools and implements											
Repair and maintenance of farm machinery and implements											
Small scale processing and value addition											
Post Harvest Technologies											
<b>VII Plant Protection</b>											
Integrated Pest Management	2	16	2	18	8	2	10	20	2	22	50
Disease Management	2	18	2	20	6	1	7	18	5	23	50
Bio-control of pests and diseases	2	15	3	18	6	2	8	22	2	24	50
Production of bio control agents and bio pesticides											

VIII Fisheries												
Integrated fish farming												
Carp breeding and hatchery management												
Carp fry and fingerling rearing												
Composite fish culture												
Hatchery management and culture of freshwater prawn												
Breeding and culture of ornamental fishes												
Portable plastic carp hatchery												
Pen culture of fish and prawn												
Shrimp farming												
Edible oyster farming												
Pearl culture												
Fish processing and value addition												
IX Production of Inputs at site												
Seed Production												
Planting material production												
Bio-agents production												
Bio-pesticides production												
Bio-fertilizer production												
Vermicompost production												
Other Organic manures production												
Production of fry and fingerlings												
Production of Bee-colonies and wax sheets												
Small tools and implements												
Production of livestock feed and fodder												
Production of Fish feed												
<b>X Capacity Building and Group Dynamics</b>												
Leadership development in villages	3	36	18	54	6	3	9	9	3	12	75	
Managing Group dynamics												
Formation and Management of SHGs	2	24	12	36	4	2	6	6	2	8	50	
Mobilization of social capital in villages												
Entrepreneurial development of farmers/youths	2	24	12	36	4	2	6	6	2	8	50	
WTO and IPR issues	1	12	6	18	2	1	3	3	1	4	25	
<b>XI Agro-forestry</b>												
Production technologies												
Nursery management												
Integrated Farming Systems												
<b>XII Others (Pl. Specify)</b>												
<b>TOTAL</b>	<b>51</b>	<b>354</b>	<b>129</b>	<b>483</b>	<b>182</b>	<b>112</b>	<b>294</b>	<b>364</b>	<b>134</b>	<b>498</b>	<b>1275</b>	
<b>(B) RURAL YOUTH</b>												
Mushroom Production	2	18	2	20	8	2	10	12	8	20	50	
Bee-keeping	1	8	2	10	3	1	4	10	1	11	25	
Integrated farming	1	5	2	7	7	3	10	6	2	8	25	
Seed production	2	7	3	10	17	3	20	15	5	20	50	
Production of organic inputs	1	5	3	8	5	2	7	8	2	10	25	
Integrated Farming												
Planting material production												
Vermiculture	1	6	4	10	5	3	8	5	2	7	25	
Sericulture	1	4	6	10	2	2	4	3	8	11	25	
Protected cultivation of vegetable crops	1	17	3	20	0	0	0	3	2	5	25	
Commercial fruit production	1	11	2	13	1	0	1	9	2	11	25	
Repair and maintenance of farm machinery and implements												
Nursery Management of Horticulture crops												
Training and pruning of orchards												
Value addition												
Production of quality animal products												
Dairying												

Sheep and goat rearing	2	36	4	40	2	2	4	4	2	6	50
Quail farming											
Piggery	1	2	2	4	1	2	3	6	12	18	25
Rabbit farming											
Poultry production	1	2	1	3	2	2	4	12	6	18	25
Ornamental fisheries											
Training as Para vets											
Training as Para extension workers											
Composite fish culture											
Freshwater prawn culture											
Fish harvest and processing technology											
Fry and fingerling rearing											
Small scale processing											
Post Harvest Technology	2	2	8	10	2	16	18	4	18	22	50
Tailoring and Stitching											
Rural Crafts											
<b>TOTAL</b>	<b>17</b>	<b>123</b>	<b>42</b>	<b>165</b>	<b>55</b>	<b>38</b>	<b>93</b>	<b>97</b>	<b>70</b>	<b>167</b>	<b>425</b>
<b>I Extension Personnel</b>											
Productivity enhancement in field crops	1	2	0	2	8	0	8	15	0	15	25
Integrated Pest Management	2	16	0	16	8	0	8	26	0	26	50
Integrated Nutrient management	1	5	0	5	5	0	5	15	0	15	25
Rejuvenation of old orchards											
Protected cultivation technology											
Formation and Management of SHGs	1	12	6	18	2	1	3	3	1	4	25
Group Dynamics and farmers organizations											
Information networking among farmers	1	12	6	18	2	1	3	3	1	4	25
Capacity building for ICT application											
Care and maintenance of farm machinery and implements											
WTO and IPR issues	1	12	6	18	2	1	3	3	1	4	25
Management in farm animals											
Livestock feed and fodder production	1	18	0	18	5	0	5	2	0	2	25
Household food security											
Women and Child care	1	0	10	10	0	7	7	0	8	8	25
Low cost and nutrient efficient diet designing											
Production and use of organic inputs											
Gender mainstreaming through SHGs	1	12	6	18	2	1	3	3	1	4	25
Any other (Pl. Specify)											
<b>TOTAL</b>	<b>10</b>	<b>89</b>	<b>34</b>	<b>123</b>	<b>34</b>	<b>11</b>	<b>45</b>	<b>70</b>	<b>12</b>	<b>82</b>	<b>250</b>

**Consolidated table (On + Off + Sponsored + Vocational)**

Thematic area	Courses (No)	No. of participants									Grand Total
		Others			SC			ST			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>											
<b>I Crop Production</b>											
Weed Management	1	4	1	5	5	2	7	8	5	13	25
Nutrient Management											
Resource Conservation Technologies	1	2	1	3	7	3	10	10	2	12	25
Cropping Systems	1	4	1	5	6	4	10	5	5	10	25
Crop Diversification	1	4	2	6	7	5	12	5	2	7	25
Integrated Farming systems	1	3	2	5	4	1	5	5	10	15	25
Water management	2	6	4	10	10	5	15	16	9	25	50
Seed production											
Nursery management											
Integrated Crop Management											
Fodder production	1	1	1	2	6	4	10	10	3	13	25
Production of organic inputs											

<b>II Horticulture</b>											
<b>a) Vegetable Crops</b>											
Production of low volume and high value crops	1	4	0	4	0	0	0	21	0	21	25
Off-season vegetables											
Nursery raising											
Exotic vegetables production											
Production of export potential vegetables	1	3	1	4	1	0	1	18	2	20	25
Grading and standardization											
Protective cultivation (Green Houses, Shade Net etc.)	1	18	2	20	0	0	0	4	1	5	25
<b>b) Fruits</b>											
Training											
Pruning											
Layout and Management of Orchards											
Cultivation of Fruit crops	2	28	6	34	0	0	0	14	2	16	50
Management of young plants/orchards											
Rejuvenation of old orchards	1	0	0	0	0	0	0	25	0	25	25
Cultivation of export potential fruits											
Micro irrigation systems of orchards											
Plant propagation techniques	1	3	1	4	1	0	1	18	2	20	25
<b>c) Ornamental Plants</b>											
Nursery Management	1	2	3	5	0	2	2	4	14	18	25
Management of potted plants											
Production of export potential ornamental plants											
Propagation techniques of Ornamental Plants											
<b>d) Plantation crops</b>											
Production and Management technology	1	6	2	8	0	0	0	14	3	17	25
Processing and value addition											
<b>e) Tuber crops</b>											
Production and Management technology											
Processing and value addition											
<b>f) Spices</b>											
Production and Management technology	1	4	4	8	1	1	2	12	3	15	25
Processing and value addition											
<b>g) Medicinal and Aromatic Plants</b>											
Nursery management											
Production and management technology											
Post harvest technology and value addition											
<b>III Soil Health and Fertility Management</b>											
Soil fertility management	2	12	3	15	15	5	20	10	5	15	50
Soil and Water Conservation	1	8	0	8	10	0	10	7	0	7	25
Integrated Nutrient Management	3	17	5	22	20	5	25	20	8	28	75
Production and use of organic inputs											
Management of Problematic soils	1	8	0	8	9	0	9	8	0	8	25
Micro nutrient deficiency in crops											
Nutrient Use Efficiency	1	5	2	7	5	3	8	6	4	10	25
Soil and Water Testing	1	5	2	7	5	2	7	8	3	11	25
<b>IV Livestock Production and Management</b>											
Dairy Management	1	12	0	12	8	3	11	1	1	2	25
Poultry Management	2	24	4	28	12	6	18	2	2	4	50
Piggery Management	2	2	2	4	6	12	18	24	4	28	50
Rabbit Management											
Disease Management	2	22	4	26	6	10	16	4	4	8	50
Feed management											
Production of quality animal products											
<b>V Home Science/Women empowerment</b>											

Household food security by nutrition gardening											
Design and development of low/minimum cost diet											
Designing and development for high nutrient efficiency diet	1	2	6	8	2	6	8	1	8	9	25
Minimization of nutrient loss in processing											
Gender mainstreaming through SHGs											
Storage loss minimization techniques											
Value addition											
Income generation activities for empowerment of rural Women	2	0	15	15	0	20	20	0	15	15	50
Location specific drudgery reduction technologies											
Rural Crafts											
Women and child care											
VI Agricultural Engineering											
Installation and maintenance of micro irrigation systems											
Use of Plastics in farming practices											
Production of small tools and implements											
Repair and maintenance of farm machinery and implements											
Small scale processing and value addition											
Post Harvest Technologies											
<b>VII Plant Protection</b>											
Integrated Pest Management	2	16	2	18	8	2	10	20	2	22	50
Disease Management	2	18	2	20	6	1	7	18	5	23	50
Bio-control of pests and diseases	2	15	3	18	6	2	8	22	2	24	50
Production of bio control agents and bio pesticides											
VIII Fisheries											
Integrated fish farming											
Carp breeding and hatchery management											
Carp fry and fingerling rearing											
Composite fish culture											
Hatchery management and culture of freshwater prawn											
Breeding and culture of ornamental fishes											
Portable plastic carp hatchery											
Pen culture of fish and prawn											
Shrimp farming											
Edible oyster farming											
Pearl culture											
Fish processing and value addition											
IX Production of Inputs at site											
Seed Production											
Planting material production											
Bio-agents production											
Bio-pesticides production											
Bio-fertilizer production											
Vermicompost production											
Other Organic manures production											
Production of fry and fingerlings											
Production of Bee-colonies and wax sheets											
Small tools and implements											
Production of livestock feed and fodder											
Production of Fish feed											

<b>X Capacity Building and Group Dynamics</b>											
Leadership development in villages	3	36	18	54	6	3	9	9	3	12	75
Managing Group dynamics											
Formation and Management of SHGs	2	24	12	36	4	2	6	6	2	8	50
Mobilization of social capital in villages											
Entrepreneurial development of farmers/youths	2	24	12	36	4	2	6	6	2	8	50
WTO and IPR issues	1	12	6	18	2	1	3	3	1	4	25
<b>XI Agro-forestry</b>											
Production technologies											
Nursery management											
Integrated Farming Systems											
<b>XII Others (Pl. Specify)</b>											
<b>TOTAL</b>	<b>51</b>	<b>354</b>	<b>129</b>	<b>483</b>	<b>182</b>	<b>112</b>	<b>294</b>	<b>364</b>	<b>134</b>	<b>498</b>	<b>1275</b>
<b>(B) RURAL YOUTH</b>											
Mushroom Production	2	18	2	20	8	2	10	12	8	20	50
Bee-keeping	1	8	2	10	3	1	4	10	1	11	25
Integrated farming	1	5	2	7	7	3	10	6	2	8	25
Seed production	2	7	3	10	17	3	20	15	5	20	50
Production of organic inputs	1	5	3	8	5	2	7	8	2	10	25
Integrated Farming											
Planting material production											
Vermiculture	1	6	4	10	5	3	8	5	2	7	25
Sericulture	1	4	6	10	2	2	4	3	8	11	25
Protected cultivation of vegetable crops	1	17	3	20	0	0	0	3	2	5	25
Commercial fruit production	1	11	2	13	1	0	1	9	2	11	25
Repair and maintenance of farm machinery and implements											
Nursery Management of Horticulture crops											
Training and pruning of orchards											
Value addition											
Production of quality animal products											
Dairying											
Sheep and goat rearing	2	36	4	40	2	2	4	4	2	6	50
Quail farming											
Piggery	1	2	2	4	1	2	3	6	12	18	25
Rabbit farming											
Poultry production	1	2	1	3	2	2	4	12	6	18	25
Ornamental fisheries											
Training as Para vets											
Training as Para extension workers											
Composite fish culture											
Freshwater prawn culture											
Fish harvest and processing technology											
Fry and fingerling rearing											
Small scale processing											
Post Harvest Technology	2	2	8	10	2	16	18	4	18	22	50
Tailoring and Stitching											
Rural Crafts											
<b>TOTAL</b>	<b>17</b>	<b>123</b>	<b>42</b>	<b>165</b>	<b>55</b>	<b>38</b>	<b>93</b>	<b>97</b>	<b>70</b>	<b>167</b>	<b>425</b>
<b>I Extension Personnel</b>											
Productivity enhancement in field crops	1	2	0	2	8	0	8	15	0	15	25
Integrated Pest Management	2	16	0	16	8	0	8	26	0	26	50
Integrated Nutrient management	1	5	0	5	5	0	5	15	0	15	25
Rejuvenation of old orchards											
Protected cultivation technology											
Formation and Management of SHGs	1	12	6	18	2	1	3	3	1	4	25
Group Dynamics and farmers organizations											
Information networking among farmers	1	12	6	18	2	1	3	3	1	4	25
Capacity building for ICT application											
Care and maintenance of farm											

machinery and implements												
WTO and IPR issues	1	12	6	18	2	1	3	3	1	4	25	
Management in farm animals												
Livestock feed and fodder production	1	18	0	18	5	0	5	2	0	2	25	
Household food security												
Women and Child care	1	0	10	10	0	7	7	0	8	8	25	
Low cost and nutrient efficient diet designing												
Production and use of organic inputs												
Gender mainstreaming through SHGs	1	12	6	18	2	1	3	3	1	4	25	
Any other (Pl. Specify)												
<b>TOTAL</b>		<b>10</b>	<b>89</b>	<b>34</b>	<b>123</b>	<b>34</b>	<b>11</b>	<b>45</b>	<b>70</b>	<b>12</b>	<b>82</b>	<b>250</b>

**Vocational training programmes for Rural Youth :**

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants		
				Male	Female	Total

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

**Sponsored Training Programmes NA**

No	Title	Thematic area	Month	Duration (days)	Client PF/R/EF	No. of courses	No. of Participants												
							Male			Female			Total						
							Others	SC	ST	Others	SC	ST	Others	SC	ST	Total			
1.																			
2.																			
<b>Total</b>																			



## PART – IV

### (EXTENSION ACTIVITIES AND PRODUCTION OF SEED AND PLANTING MATERIALS)

#### 4. Proposed Extension Activities for the year 2012-13 (including activities under FLD programmes)

Nature of Extension Activity	No. of activities	Farmers (No.)			Extension Officials (No.)			Rural Youth (No.)			Total (No.)		
		M	F	T	M	F	T	M	F	T	M	F	T
Field Day	5	70	10	80	10	0	10	45	15	60	125	25	150
Kisan Mela	1	45	25	70	5	0	5	15	10	25	65	35	100
Kisan Gosthi	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Exhibition	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Film Show	4	50	25	75	0	0	0	15	10	25	65	35	100
Method Demonstrations	5	75	0	75	0	0	0	0	25	25	75	25	100
Farmers Seminar	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Workshop	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Group meetings	2	0	25	25	0	0	0	0	25	25	0	50	50
Lectures delivered as resource persons	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Newspaper coverage	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radio talks	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TV talks	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Popular articles	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Extension Literature	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Advisory Services	20	25	15	40	0	0	0	0	0	0	25	15	40
Scientific visit to farmers field	24	18	3	21	0	0	0	20	7	27	38	10	48
Farmers visit to KVK	140	107	33	140	0	0	0	0	0	0	107	33	140
Diagnostic visits	10	12	2	14	0	0	0	6	0	6	18	2	20
Exposure visits	2	25	0	25	0	0	0	0	25	25	25	25	50
Ex-trainees Sammelan	2	25	25	50	0	0	0	0	0	0	25	25	50
Soil health Camp	2	50	0	50	0	0	0	0	0	0	50	0	50
Animal Health Camp	2	40	10	50	0	0	0	25	25	50	65	35	100
Agri mobile clinic	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Soil test campaigns	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Farm Science Club Conveners meet	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Self Help Group Conveners meetings	2	0	25	25	0	0	0	0	25	25	0	50	50
Mahila Mandals Conveners meetings	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Celebration of important days (specify)	2	25	20	45	10	0	10	30	25	55	65	45	110
Any Other (Specify) Farmer scientist interaction	3	50	25	75	0	0	0	0	0	0	50	25	75
<b>Total</b>	314	617	243	860	25	0	25	156	192	348	798	435	1233
<b>M=Male</b>		<b>F=Female</b>		<b>T=Total</b>									

**Proposed production and supply of Technological products**

**Seed materials:**

Sl. No.	Crop	Variety	Proposed Quantity (qtl.)	Value (Rs.)	To be provided to (No. of Farmers)
<b>Cereals</b>	Rice	Ranjit	3000	750000.00	400
	Rice	Kanaklata	1000	250000	100
<b>Oilseeds</b>	Toria	TS-38	10	50000	35
	Sesamum	ST-1683	1.5	75000	40
<b>Pulses</b>	Lentil	PL-406	6	33000	25
<b>Vegetables</b>	-	-	-	-	-
<b>Flower Crops</b>	-	-	-	-	-
<b>Others (Specify)</b>	Buck wheat	Local	6	24000	45
<b>Foundation Seed production under PPP mode</b>	Rice	Ranjit	40	100000	50
	Rice	Kanaklata, Joymati	40	100000	55
	Toria	TS-38	10	50000	50

**Planting materials :**

Sl. No.	Crop	Variety	Quantity (Nos.)	Value (Rs.)	To be provided to (No. of Farmers)
<b>Fruits</b>					
	Banana	Malbhog	1000 suckers	5000.00	75
	Pineapple	Kew	1000 suckers and slips	2000.00	50
<b>Spices</b>					
<b>Vegetables</b>					
<b>Forest Species</b>					
<b>Ornamental Crops</b>					
<b>Plantation Crops</b>					
<b>Others (specify)</b>					

Bioproducts : NA

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

Livestock : NA

Sl. No.	Type	Breed	Quantity		Value (Rs.)	To be provided to (No. of Farmers)
			Nos	Kgs		
<b>Cattle</b>						
<b>Sheep and Goat</b>						
<b>Poultry</b>						
<b>Fisheries</b>						
<b>Others (Specify)</b>						

Literature proposed to be developed/ published

Item	Title	Number
Research papers	-	3
Technical reports	Action Plan (1), Annual Report (1), Report for ZREAC (1), Impact Point Report for Zonal Workshop (18)	21
News letters	KVK Newsletter	1
Technical bulletins	On Agricultural and Allied subjects	5
Popular articles	On Horticulture, Field Crops, Plant Protection, Soil Science, Home Science, Animal Science, etc.	15
Extension literature	On Horticulture, Field Crops, Plant Protection, Soil Science, Home Science, Animal Science, etc.	15
Others (Pl. specify)	Magazine for Farmer	1
<b>Total</b>		<b>61</b>

Details of Electronic Media proposed NA

S. No.	Type of media (CD / VCD / DVD /	Proposed title of the programme	Number

	<b>Audio-Cassette)</b>		

**Field activities proposed**

- i. Number of villages to be adopted : 4
- ii. No. of farm families to be selected : 40
- iii. No. of surveys/PRA to be conducted : 4

**Proposed activities of Soil and Water Testing Laboratory:**

- Status of establishment of Lab** : No Lab available
- 1. Year of establishment :
  - 2. Details of samples to be analyzed :

<b>Details</b>	<b>No. of Samples</b>	<b>No. of Farmers</b>	<b>No. of Villages</b>
Soil Samples			
Water Samples			
Total			

**PART – V**  
**(LINKAGES WITH OUTSIDE ORGANISATIONS)**

**5. Proposed Linkages**

**Functional linkage with different organizations**

Name of organization	Nature of linkage
State Department of Agriculture, Veterinary, Sericulture, etc. of Chirang and Bongaigaon district	<ol style="list-style-type: none"> <li>1. planning and implementation of ATMA</li> <li>2. Involvement in various state schemes like Technology Mission, NFSM, BGRIEI, NAEP, Mission Double Cropping, etc.</li> <li>3. Exchange of Resource Persons for various training programmes</li> <li>4. Certification of planting materials for horticultural crops</li> <li>5. Identification of training needs and target group for various extension activities</li> <li>6. Diagnostic surveys</li> <li>7. Level implementation and monitoring, etc.</li> </ol>
Research Stations and KVKs	<ol style="list-style-type: none"> <li>1. Exchange of seeds and planting materials for various programmes</li> <li>2. Implementation of Technology Showcasing</li> <li>3. Exchange of Resource Persons for various training programmes</li> <li>4. Participation in the ZREAC meeting</li> <li>5. Exchange of technical expertise of scientists</li> </ol>
Civil Administration, DRDA, SIRD, Block Development Offices, DICC, Banks of Chirang and Bongaigaon district	<ol style="list-style-type: none"> <li>1. Participation in various departmental programmes</li> <li>2. Entrepreneurship development</li> <li>3. Participation in NREGA</li> <li>4. Formation and functioning of SHGs, NGOs, etc.</li> </ol>
All India Radio, Kokrajhar	<ol style="list-style-type: none"> <li>1. Radio talk</li> <li>2. Publicity</li> </ol>
Door Darshan, Guwahati; private TV channels	<ol style="list-style-type: none"> <li>1. Publicity</li> <li>2. TV programmes</li> </ol>
Farmers organizations like All Bodoland Farmers' Association (DuBAA), Field Management Committee, etc.	<ol style="list-style-type: none"> <li>1. Identification of need based training courses and beneficiaries for various extension activities</li> <li>2. Organization of training programmes</li> <li>3. Entrepreneurship development activities</li> <li>4. Celebration of important days</li> </ol>
Non Govt. Organizations like SeSTA, Chirang; ICDP, Tukrajhar; DISHA, Basugaon; RACE, Abhayapuri, etc.	<ol style="list-style-type: none"> <li>1. Participation as resource persons in collaborative programmes</li> <li>2. Identification of need based training courses and beneficiaries for various extension activities</li> <li>3. Organization of training programmes</li> <li>4. Participation in meetings and awareness programmes</li> </ol>

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Technology Showcasing cum seed production programme	November, 2010	AAU, Jorhat & State Department of Agriculture	-
Seed production programme in farmers field	November, 2010	Mega Seed Project	-
Farmers Participatory Action Research Programme (FPARP) (Phase-II)	April, 2011	Ministry of Water Resources, Govt. of India	537000.00

**Details of proposed linkage with ATMA**

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

S. No.	Programme	Nature of linkage proposed
1	Front Line Demonstration	FLD on Animal Science
2	Training	Involvement in the training programmes as Resource Person
3	Farm School	Involvement as technical Resource Person
4	Participatory Research	Conducting farmers' participatory on-farm research

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

S. No.	Programme	Nature of linkage proposed

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

S. No.	Programme	Nature of linkage proposed

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

**6. Performance of infrastructure in KVK**

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

No.	Demo Unit	Year of estt.	Area	Proposed production			Amount (Rs.)	
				Variety	Produce	Qty.	Cost of inputs	Gross income expected

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

Name Of the crop	Expected Date of sowing	Expected Date of harvest	Area (ha)	Proposed production			Amount (Rs.)	
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income expected
Cereals								
Pulses								
Oilseeds								
Sesamum	August, 2012	October, 2012	1.0	ST-1683	Seed	1.5	10000	75000
Fibers								
Spices								
Plantation crops								
Floriculture								
Fruits								
Vegetables								
Others (Specify)								
Buckwheat	October, 2012	January, 2013	1.0	Local	Seed	6.0	8000	24000

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

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

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

No	Name of the animal / bird / aquatics	Details of expected production		
		Breed	Type of Produce	Qty expected

**PART – VII**  
**(SUMMARY)**

**7. Summary**

**Targets for 2012-13 for KVK. Chirang**

**On Farm Trials**

Thematic areas	Cereals	Pulses	Vegetables	Fruits	Others	Total
Varietal Evaluation		-	2	-	1	3
Crop Management	1	-	1	-	1	3
Orchard rejuvenation	-	-	-	1	-	1
Canopy management	-	-	-	1	-	1
Mechanization Drip irrigation	-	-	-	1	-	1
Integrated Pest and Disease Management	-	-	2	-	1	3
Storage pest management	-	1	-	-	-	1
Soil Health	1		-	-	-	1
Soil Biology (BGA/Azolla)	1		-	-	-	1
Soil management		1	-	-	-	1
Soil amendment (Lime/others)					1	1
Integrated Nutrient Management	-	-	-	-	-	-
Formation of groups					1	1
Bench Mark Survey (PRA)					1	1
Impact Assessment					1	1
Use of women friendly tools					1	1
Techniques of child care					1	1
Poultry management					1	1
Piggery management					1	1
Fodder production					1	1
<b>Grand total</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>12</b>	<b>25</b>

**FLDs on oilseed and pulse crops.**

Name of KVK	Oilseeds		Pulses	
	Area (ha)	No. of farmers	Area (ha)	No. of farmers
KVK, Chirang	7	19	2	8
<b>Total</b>	<b>7</b>	<b>19</b>	<b>2</b>	<b>8</b>

**Training Programmes**

Area	Farmers/ farm women		Rural youth		Extension personnel	
	Courses	Participants	Courses	Participants	Courses	Participants
Crop Production	8	200	3	75	1	25
Horticulture	10	250	2	50	-	-
Plant Protection	6	150	1	25	2	50
Home Science	3	75	2	50	1	25
Animal Science	7	175	4	100	1	25
Soil Science	9	225	2	50	1	25



Bee Keeping	-	-	1	25	-	-
Mushroom Cultivation	-	-	2	50	-	-
Others i) Agril. Econ.	8	200	-	-	4	100
<b>Total</b>	<b>51</b>	<b>1275</b>	<b>17</b>	<b>425</b>	<b>10</b>	<b>250</b>

### Extension Activities

Activity	Nos
Field days	5
Kisan Mela	1
Exhibition	5
Exposure visit	2
Extension literature	15
Scientist farmers' interaction	3
Ex-trainees meet	2
Advisory services	20
Newspaper coverage	15
TV show	3
Radio talk	10
Film Show	4
Method Demonstrations	5
Group Meetings	2
Lectures delivered as resource persons	25
Popular articles	15
Scientific visit to farmers field	24
Farmers visit to KVK	140
Diagnostic visits	10
Soil health Camp	2
Animal Health Camp	2
Self Help Group Conveners meetings	2
Celebration of important days	2
<b>Total</b>	<b>314</b>

### Seed Production:

KVK	Quantity (qtl)			
	Cereals	Oilseeds	Pulses	Vegetables
KVK, Chirang	3000 (Sali paddy)	10 (Torlia)	6 (Lentil)	6 (Buckwheat)
	1000 (Boro paddy)	1.5 (Sesamum)	-	-
	40 (Sali rice) (PPP Mode)	-	-	-
	40 (Boro rice) (PPP Mode)	10 (Torlia) (PPP Mode)	-	-
<b>Total</b>	<b>4080</b>	<b>21.5</b>	<b>6</b>	<b>6</b>

### Planting Materials:

KVK	Quantity (nos)			
	Fruits	Vegetable Seedlings	Tree Species	Ornamental Plants
KVK, Chirang	1000 (banana suckers)			
	1000 (pineapple suckers & slips)			
<b>Total</b>	<b>2000</b>			

Signature,  
Programme coordinator,  
KVK, Chirang