

PROFORMA FOR ANNUAL REPORT OF KVKS, 2012-13

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	
Krishi Vigyan Kendra, Sivasagar, Assam PO: Rahdoipukhuri Via Santak PIN : 785687 www.aau.ac.in/dee/kvksivasagar/index.html	9435155361	NA	kvksivasagar@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Assam Agricultural University, Jorhat -785013	0376-2340029	0376-2340029	registrar@aau.ac.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Phuleswar Nath	NA	09954411012	phuleswarnath@rediffmail.com

1.4. Year of sanction: 2003

1.5. Staff Position (As on 31st March, 2013)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining at KVK, Sivasagar	Permanent /Temporary	Category (SC/ST/OBC/Others)
1	Programme Coordinator	Dr. Phuleswar Nath	Programme Coordinator	Plant Pathology	37000-67000	46440 + 9000	22.11.08	Permanent	OBC
2	Subject Matter Specialist	Mrs. Arunima Bharali	SMS	Nematology	15600-39100	18320 + 6000	06.11.08	Permanent	OBC
3	Subject Matter Specialist	Mr. Prodip Handique	SMS	Agril. Extension	15600-39100	18320 + 6000	07,09.11	Permanent	OBC

4	Subject Matter Specialist	Mr. Rupjyoti Borah	SMS	Soil Science	15600-39100	18320 + 6000	10.08.11	Permanent	OBC
5	Subject Matter Specialist	Miss Luna Barooah	SMS	Horticulture	15600-39100	16250 + 6000	04.08.11	Permanent	General
6	Subject Matter Specialist	Dr. Rafiqul Islam	SMS	Animal Science	15600-39100	16250 + 6000	05.08.11	Permanent	General
7	Subject Matter Specialist	Mr. Ajoy Sankar Borah	SMS	Agronomy	15600-39100	16250 + 6000	23.08.11	Permanent	OBC
8	Programme Assistant	Abdur Rahman	Programme Assistant	Fishery Science	8000-35000	8390 + 4900	08.09.11	Permanent	General
9	Computer Programmer	Sri Juga Rashmi Borah	Programme Assistant (Computer)	Computer	8000-35000	11890 + 4900	11.11.08	Permanent	OBC
10	Farm Manager	Dr. Binay Kr. Ray	Farm Manager	Agril. Bio technology	8000-35000		06.01.09	Permanent	OBC
11	Accountant / Superintendent	Miss Rashmirekha Saikia	Office Supdt cum Accountant	Agri-Business Management	8000-35000	8000 + 4900	22.02.12	Permanent	OBC
12	Stenographer	Mrs. Karabi Borgohain Phukan	Jr. Steno cum com. operator	Bachelor of Arts	5200-20200	5200 + 2800	18.02.12	Permanent	OBC
13	Driver	Joy Chandra Bora	Driver cum Mechanic	-	5200-20200	5200 + 2200	22.02.12	Permanent	OBC
14	Driver	Phanidhar Gogoi	Driver cum Mechanic	-	5200-20200	5200 + 2200	22.02.12	Permanent	OBC
15	Supporting staff	Baneswar Gogoi	Grade IV	-	4560-15600	7300 + 1800	20.12.07	Permanent	OBC
16	Supporting staff	Vacant							

1.6. Total land with KVK (in ha) : 13.7 ha

S. No.	Item	Area (ha)
1.	Under Buildings	0.800
2.	Under Demonstration Units	0.014
3.	Under Crops	2.000
4.	Orchard/Agro-forestry	-
5.	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						Under construction
2.	Farmers Hostel	-do-					305	Yet to be completed
3.	Staff Quarters (6)	-do-					298	95% completed
4.	Demonstration Units (2)	RKVY		140.26				
5.	Boundary Wall	ICAR		121 m				
6	Boundary Fencing	ICAR					823 m	

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Marshall Jeep	2005-06	4,90,503.00	66271	Need to be repaired

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Kilburn Mita Digital Copier	2006	48,360.00	Good
Digital photo copier	2010-11	101920.00	Good
2KVA Voltage stabilizer	2006	3,375.00	Good
Duplicating machine	2005	43,686.00	Not in working condition
Desktop Computer	2006	27,101.00	Good
Desk Top Computer	2010	55,094.00	Good
Laptop	2010	31547.00	Good
Laser Printer	2006	9,605.00	Good
Laser Printer	2010	5475.00	Good
1KVA UPS	2006	5,951.00	Good
Scanner	2006	3,549.00	Good
Scanner	2010	2724.00	Good
Digital Camera	2005-06	15,080.00	Good
Digital Camera	2010	19000.00	Good
Fax Machine	2005-06	25,792.00	Good
Fax Machine	2010	15190.00	Good

Cassette Player with Amplifier	2005-06	5,625.00	Good
Microphone with stand	2005-06	6,300.00	Good
300 watts Sound Box with 15" Speaker	2005-06	11,250.00	Good
LCD Projector	2005-06	55,016.00	Good
UPS	2009-10	2150.00	Good
Weather station	2012	45,000.00	Good

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

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	22 nd March, 2013	Dr. Kamal Malla Bujarbaruah, Vice Chancellor, AAU, Jorhat	<ul style="list-style-type: none"> Youth Convention is to be organised to know the youth mentality on their field of interest and to intervene accordingly. NBSS, Regional centre, Jorhat should be consulted before taking soil rejuvenation programme. A product "Assam Mix" developed at AAU should be introduced among rural people to overcome the malnutrition issue. Short duration wheat variety should be tried to escape the rainfall so that production and productivity of wheat could be increased. Button mushroom may be tried in the farmer's house hold. In large water bodies pen culture may be introduced in the district. 	To be implemented in 2013-14.
		Dr. H.C. Bhattacharyya, Director of Extension Education, AAU, Jorhat		
		Dr. Phuleswar Nath, Programme Coordinator, KVK, Sivasagar		
		Syed Habibur Rahman, District Fisheries Development Officer, Sivasagar		
		Smt. Deepali Swargiary Boruah, District Social Welfare Officer, Sivasagar		
		Mr. Sankar Das, DDM, Sivasagar		
		Mr. B. K. Boruah, ADC, Sivasagar		
		Mr. J. N. Boruah, Asstt. Managaer, DICC, Sivasagar		
		Dr. Minati Phukan, Dean, i/c College of Home Science		
		Dr. Utpal Baruah, Head of Regional Centre, NBSS & LUP. ICAR, Jorhat		
		Dr. Khanindradev Goswami, Sub Divisional Animal Husbandry & Veterinary Officer		
		Mr. Kailash Ch. Das, District Agricultural Officer, Sivasagar		
		Mrs. Krishna Das, Lead District Manager, Sivasagar		
		Mr. M. N. Phukan, Asstt. Director, Sericulture, Sivasagar		
		Mrs. Shanti Handique, Progressive Farm Woman, Bengmuria Konwar gaon, Sivasagar		
		Mr. Nabin Gogoi, Progressive Farmer, Sonari, Sivasagar		
		Mr. Ajit Kr. Gogoi, Progressive Farmer, Charing, Sivasagar		
		Miss Sangita Borkotoky, Progressive farm woman, Lakhimi ali, Sivasagar		
		Mrs. Arunima Bharali, SMS (Plant Protection), KVK, Sivasagar		
		P. Handique, SMS, (Agril. Extension), KVK, Sivasagar		
Mr. Rupjyoti Borah, SMS (Soil Science), KVK, Sivasagar				
Dr. Rofiqul Islam, SMS (Animal Science), KVK, Sivasagar				
Miss Luna Boruah, SMS (Horticulture), KVK, Sivasagar				

2. DETAILS OF DISTRICT

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

Sl. No	Farming system/enterprise
1.	Agri – Hort – AH
2.	Agri – Hort – AH – Fishery
3.	Agri – Hort – AH – Seri
4.	Hort – Agri
5.	AH
6.	AF – Agri

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

S. No	Agro-climatic Zone	Characteristics
1.	Upper Brahmaputra Valley Zone	<ul style="list-style-type: none"> ❖ This zone covers 160789 sq/ km ❖ Hot and wet summer climate ❖ Maximum temperature 37°C ❖ Minimum temperature 7°C ❖ Relative Humidity : 96% ❖ Heavy rainfall: March, April and May ❖ Very cold during January and February ❖ Dry weather: Mid October – Mid December

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1.	Inceptisol (Old Alluvial)	The texture of surface soil ranges from fine loamy, coarse loamy, coarse silty and fine soil. 58 percent of the soil area is categorized under fine loamy soil of inceptisol	136863
2.	Entisol (Recent Alluvial)		68116

Source : SREP, Sivasagar

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

Sl. No	Crop	Area (ha)	Production (Mt)	Productivity (kg/ha)
1	Winter paddy	106726.00	373541	3500
2	Autumn Paddy	445.50	922	2070
3	Summer paddy	13.78	27	2000
4	Wheat	84.20	59	710
5	Green Gram	30.50	20.7	680
6	Black Gram	250.00	177	710
7	Peas	333.00	193	580
8	Rapeseed & Mustard	1263.00	884	700
9	Sugarcane	87.00	5220	60000
10	Jute	58.75	616	10500
11	Banana	1887.00	28682	15200
12	Orange	185.00	300	1625
13	Pineapple	175.50	2562	14600
14	Papaya	151.00	1891	12525
15	Areca nut	3175.00	3365	1060
16	Coconut	493.00	-	80 nuts/plant
17	Litchi	43.00	183	4270
18	Mango	89.00	382	4300
19	Jackfruit	445.00	10956	24621
20	Assam lemon	810.00	5038	6220
21	Other fruits	22.00	121	5530
22	Onion	80.50	162	2020
23	Ginger	196.27	1095	5580
24	Turmeric	230.13	140	610
25	Chilli	100.34	68	680
26	Black pepper	42.20	21	500
27	Garlic	39.50	23	600
28	Coriander	24.00	-	-
29	Kharif vegetables	1882.00	16712	8880
30	Rabi Vegetables	3236.00	22684	7010
31	Potato	945.00	5953	6300

Source : Statistical Handbook of Assam, 2011, Economic Survey, 2010-11

2.5. Weather data

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
April, 2012	0.2	35	22	84
May, 2012	124.8	37	20	82
June, 2012	288.6	38	22	89
July, 2012	541.2	37	24	87
August, 2012	247	39	23	85
Sept, 2012	146.6	37	21	93
Oct, 2012	58.2	34	15	89
Nov, 2012	7.4	30	11	86
Dec, 2012	17	27	4.9	86
Jan, 2013	1.4	25	7.2	84
Feb, 2013	*			
March, 2013	*			

* Data not available because of non functioning of meteorological station

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

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	15009		
<i>Indigenous</i>	449447		
Buffalo	27178		
Sheep	271		
<i>Crossbred</i>			
<i>Indigenous</i>			
Goats	158757		
Pigs	62994		
<i>Crossbred</i>			
<i>Indigenous</i>			
Rabbits			
Poultry	687506		
Hens			
<i>Desi</i>			
<i>Improved</i>			

Ducks	360564		
Turkey and others			

Source : 2007 live stock census

Category	Area (Ha)	Production (MT)	Productivity
Fish	44163	11100	
<i>Marine</i>			
<i>Inland</i>	44163	11100	
Prawn			
Scampy			
Shrimp			

(Data source: Statistical Handbook of Assam, 2011 Page 104; * Livestock Census, 2007)

2.6 Details of Operational area / Villages (2012-13)

No	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Sivasagar sub-Division	Sivasagar block	Batbari, Cherekapar, Nemuguri, Hanhsora, Gargaon, Rajabari, Rajmai, Bakata.	Rice, Tea, Horticulture crops	Pests and diseases, flood	Rice, Tea, dairy, piggery, fishery, Horticulture crops
		Demow block	Rajabari, Netaipukhuri, Sukhanpukhuri, Demow, Disangmukh, Panbesa, Konwarpur, Jhanji	Rice, mustard, vegetables and horticultural crops	Low productivity, pests and diseases.	Rice, mustard, vegetables, pea, black gram.
		Gaurisagar block	Rangpur, Rudrasagar, Magarkhat, Dikhowmukh, Kanamukh	Rice, vegetables, fishery, poultry, piggery.	Low productivity, pests and diseases. Flood occurrence.	Rice, fishery, vegetable crops, contingency planning.
2.	Amguri sub-division	Amguri block	Namti, Amguri, Lalimchiga, Khanikar, Samguri, Tarabari, Haluating	Rice, mustard, wheat, horticultural crop.	Pests and diseases. Low productivity of citrus.	Rice, horticultural crop, rejuvenation of citrus plantations.

3.	Nazira sub_division	Nazira block	Nazira, Simologuri, Namti, Galeki, Dhopabar, Hanhsora, Bartala, Ligrupukhari, Chauak, Bihubar, Mesagarh, Rohdoipukhuri.	Rice, wheat, jute, potato, sugarcane, piggery, fishery, dairy.	Low production, pest and disease incidence.	Management of production technology.
4.	Sonari sub-division	Sonari block	Lakua, Safrai, Sapekhati, Mathuranagar, Dolbagan, Borhat, Bhojo, tengapukhuri, Sepon, Abhoipur, Maibela.	Rice and horticultural crops, banana, pine apple, coconut, wheat.	Nursery raising, pest and disease problem	Rice, horticultural crops, pine apple, papaya, banana, coconut, mustard.

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievements of mandatory activities by KVK during 2012-13

Discipline	OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Maize, Other Crops/Enterprises)			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Agronomy	4	4	10	10	9	9	24	24
Soil Science	2	2	5	5	2	2	77	77
Horticulture	2	3	6	9	5	5	11	11
Plant Protection	2	2	4	4	2	2	10	8
Fishery	1	1	2	2	2	2	4	4
Animal Science	2	2	6	6	2	2	23	23
Extension	2	2	48	48	2	2	67	67

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	50	35	916	1019				
Rural youth	23	11	235	242				
Extn. Functionaries	8	3	155	58				
Seed Production (Qt.)				Planting material (Nos.)				
5				6				
Target		Achievement			Target		Achievement	
45 Qt (Rice)		7.8 Qt (Rice)						

3. B. Abstract of interventions undertaken during 2012-13

S. No	Thrust area	Crop/ Enterprise	Identified problems	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Varietal Evaluation	Paddy	Absence of suitable submergence tolerant paddy variety	Performance of submergence tolerant paddy variety Swarna Sub-1	-	-	-	-	Seed, fertilizers, Chemicals
2				Performance of submergence tolerant paddy variety Var. TTB-303-1-42	-	-	-	-	Seed, fertilizers, Chemicals
3		Paddy	Low yield of traditional aromatic variety	-	Performance of HYV aromatic paddy variety Keteki Joha	-	-	Field day	Seeds, fertilizers
4		Fodder	Unavailability of high protein containing leguminous fodder	Performance of rice bean as fodder Var. Shyamolima					Seeds, fertilizers
5		Toria	Lack of suitable variety to fit in double cropping after winter paddy	Performance of late sown toria variety TS-67	Performance of HYV toria variety TS-38				Seeds, fertilizers
6		Tomato	Low yield & low market value	Evaluation of tomato var. Megha tomato 3				Popular article	Seeds
7		Sesamum	Low yield of traditional variety	-	Performance of HYV Sesamum AST-1	-	-	-	Critical inputs
8		Pea	Low yield of traditional variety	-	Performance of HYV Pea Var. Azad	-	-	-	Seeds, fertilizers
9		Black gram		-	Performance of HYV Blackgram Var. KU-301	-	-	-	Critical inputs
10		Sugarcane		-	HYV of sugarcane var- Kolong	-	-	-	Critical inputs
11		Potato		-	Evaluation of HYV potato var. Kufrijyoti	-	-	-	Seed, fertilizer
12		Gerbera		-	Performance of gerbera var. Red Gem	-	-	-	Suckers, fertilizers
13		Poultry	Non-availability of improved dual purpose backyard poultry	-	Dual purpose backyard poultry Vanaraja	-	-	Radio talk	DOC, Feed, Medicines, vaccines
14		Duck	Lower productive and reproductive performance of existing local breed	-	Performance of Improved breed Khaki Campbell	-	-	Training Popular article	Duckling, Feed, Medicines, vaccines

15	Integrated Nutrient Management	Paddy	Maintenance of soil health by use of chemical fertilizers is a problem and high cost of chemical fertilizers.	Nutrient management in rice-toria cropping sequence	Azolla for N supplementation in paddy	Integrated Nutrient Management		Diagnostic visit, Method demonstration	Seed, Biofertilizer, Azolla
				Nutrient management in rice-rice cropping sequence					
16	Promotion of organic farming practices	Okra	Health hazards	Cultivation of okra using organic sources				Popular article	Seeds, fertilizers.
17	Preparation of Organic inputs	Vermicompost	Non availability of organic inputs		Demonstration of Vermicompost	Production of organic inputs Azolla culture and preparation of enriched compost			Earthworm
18	Soil fertility management	Soil management	Declining soil health			Soil management practices for sustained soil fertility			
19	IPM	Brinjal	Heavy use of pesticides against fruit and shoot borer	IPM in brinjal fruit & shoot borer					Critical inputs, Neemcake, Pheromone trap
20		Tomato	Heavy use of pesticides against fruit and shoot borer	IPM in Tomato					Critical inputs, Neemcake, Pheromone trap
21		Paddy	To reduce environmental pollution		IPM in scented paddy variety Keteki Joha	IPM in Keteki Joha	IPM in Sali rice	Field Day Training	Seeds, Fertilizers, Trichocard
22		Potato			IPM in potato var Kufri Jyoti				Seeds, Fertilizers
23	Preparation of biopesticides				Preparation of biopesticides				
24	Group formation and SHG management	-	-	-	-	<ul style="list-style-type: none"> Formation of farmers' club for socio-economic development of rural people Capacity building for technical strengthening of SHG 	-	-	-

25	Entrepreneurship development	-	-	-	-	<ul style="list-style-type: none"> Agricultural entrepreneurship development for upliftment of rural people 	-	-	-
26	Crop management	Banana	Unequal finger size	Denavelling and post shoot feeding in Banana var. Cavendish		<ul style="list-style-type: none"> Soil management practices for sustained soil fertility – 2 Scientific Sali rice production – 11 Layout and management of citrus and banana orchards-2 Commercial cultivation of pine-apple-2 			Fertilizers
27		Potato	High cost of irrigation	-	-		-	-	Critical inputs
28	Integrated Weed Mgmt	Pineapple	-	-	Mulching in pineapple using rice straw	-	-	-	Planting materials, fertilizers
29	Integrated farming system	Hort fish	-	-	Hort-fish farming system model	<ul style="list-style-type: none"> Integrated fish farming for better livelihood – 4 			Planting materials
30	Commercial pisciculture	Fisheries	Non availability of quality seeds for composite fish culture		Carp seed rearing at backyard pond	<ul style="list-style-type: none"> Composite fish culture - 3 			Critical inputs
31		Fisheries	Non adoption of recommended fish rearing practices		Composite culture of carps and barbs	-	-		Critical inputs
32	Culture of native magur	Fisheries	Low production of native magur (<i>Clarias batrachus</i>) and lack of conservation strategy	Cultivation of native magur	-	-	-	-	Seeds, feeds, lime, fertilizers and 1 foot high fence with split bamboo

33	Promotion of scientific rearing practices	Pig	Lower productive and reproductive performance of existing local varieties	Performance of T & D pigs	-	<ul style="list-style-type: none"> • Scientific pig production • Scientific management of dairy cattle • Scientific broiler and duck production - 2 	-	Bulletins, popular article, awareness camp	Piglet, feed, medicines, vaccines
34	Overcoming specific deficiency for increasing production performance	Cattle	Repeat breeding due to specific mineral deficiencies	Augmenting prod. and reprod. performance of crossbred cows through suppl. of area specific mineral mixture	-	-	-	Bulletins, popular article, awareness camp	AAUVET Min
35	Orchard Rejuvenation	Mandarin	-	-	Rejuvenation of old mandarin orchard	-	-	-	Fertilizers, Micro-nutrients, Pesticides, fungicides
36	Multiple cropping system	Arecanut	-	-	Arecanut based farming system model	-	-	-	Planting materials
37	Nursery management	-	-	-	-	<ul style="list-style-type: none"> • Management practices of nursery • Nursery management for seasonal flower crops 	<ul style="list-style-type: none"> • Planting material production of gerbera and tuberose 		
38	Bench mark survey	-	Though some of the OFTs are experimented at farmers field but farmers are not perceived the technology as better.	Evaluation of OFT as undertaken by KVK sivasagar (Farmers perception towards existing technology and OFTs undertaken by KVK)	-	-	-	-	-
39		Paddy and vegetables	-	Impact of KVKs intervention in increasing the production and productivity of paddy and vegetable crops in adopted village	-	-	-	-	-
40		-	-	-	Evaluation of FLD as undertaken by KVK, Sivasagar (Farmer's perception towards existing technology and FLDs undertaken by KVK)	-	-	-	-

41	Impact analysis	Sali rice	-	-	Impact of training programme on Sali rice	-	-	-	-
42	PRA methodology						PRA programme and its application for identification of rural problems		

3.1 Achievements on technologies assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	2	1	1		1			-		5
Seed / Plant production										0
Weed Management										0
Integrated Crop Management										0
Integrated Nutrient Management	2				1					3
Integrated Farming System										0
Mushroom cultivation				1						1
Drudgery reduction										0
Farm machineries										0
Value addition										0
Integrated Pest Management					2					2
Integrated Disease Management										0
Resource conservation technology										0
Small Scale income generating enterprises										
Bench mark survey	1				1					2
TOTAL	5	1	1	1	5	0	0	0	0	13

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

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

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

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

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					1			1
Nutrition Management	1						1	2
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL	1				1		1	3

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								

11). Results of On Farm Trials

Title of OFT	Problem Diagnosed	Technology Assessed	No. of Trials	Results of Assessment/ Refined (Data on the parameter should be provided)	Feedback from the farmer	Feedback to the Researcher	B.C . Ratio
Performance of submergence tolerant paddy variety Swarna Sub-1	Absence of suitable submergence tolerant paddy variety	Var. Swarna Sub-1	2	The variety recorded an yield of 3.11 t/ha even after submergence of 7 days whereas the farmer's variety (Ranjit) failed completely. The farmers also accepted the grain quality.	Farmers are satisfied with the performance of the variety as compared to local variety	-	1.56
Performance of submergence tolerant paddy variety Var. TTB-303-1-42	Absence of suitable submergence tolerant paddy variety	Var. TTB-303-1-42	2	The variety recorded an yield of 3.33 t/ha even after submergence of 7 days	Farmers are satisfied with the performance of the variety as compared to local variety	-	1.67
Performance of rice bean as fodder Var. Shyamolima	Unavailability of high protein containing leguminous fodder	Var. Shyamolima	3	The tested variety recorded an avg. yield of 125 q/ha of green fodder	Farmers are satisfied with the performance of the variety as compared to local variety	-	1.87

Performance of late sown toria variety TS-67	Lack of suitable variety to fit in double cropping after winter paddy	variety TS-67	3	8.29 q/ha	Farmers are satisfied with the performance of the variety as compared to local variety	-	1.4
Nutrient management in rice-toria cropping sequence	Maintenance of soil health by use of chemical fertilizers as a problem and high cost of chemical fertilizers	50% NP + Full K + Enriched compost* (1 t/ha) *Enriched compost : Compost + Rock Phosphate 5% + Azospirillum/Azotobacter 1% + PSB 1%	5	The OFT (44.3 q/ha in rice and 8.96 q/ha in toria) recorded an increased yield of 4.24% and 5.67% over farmers' practice in rice and toria, respectively	Farmers are satisfied with the performance of the technology because of the low cost and resultant improved soil physical condition	-	1.59
Nutrient management in rice-rice cropping sequence	Imbalanced use of chemical fertilizers	60:20:40 N: P2O5:K2O/ha + ZnSO4 (25 kg/ha) + FYM (5t/ha)	5	The OFT (47.8 q/ha) recorded an increased yield of 8.14% over farmers' practice	Farmers expressed eagerness to adopt the technology in the cropping system	-	1.59
Cultivation of okra using organic sources	Health hazards due to excessive use of inorganic fertilizers	FYM 5t/ha+ Vermicompost 1t/ha + Rock Phosphate @ 50 kg Phosphorus/ha	3	INM treatment produces higher fruit length (17.60cm), fruit girth (3.8cm) But the yield is slightly lower (2t/ha) than recommended dose of fertilizer treatment (2.2t/ha).	Better quality of okra is produced. But yield under INM plot (2.0t/ha) is lower than the treatment under recommended dose of fertilizer(2.2t/ha)	-	2.06
Evaluation of tomato var. Megha tomato	Varieties with poor colour development	The tomato variety possesses high lycopene content.	3	Plant height (94.56cm), Flower cluster/plant (12.45nos), No of fruits/plant (26.55nos), weight of fruit (86.56g)	Attractive coloured tomatoes are produced; yield is around 200q/ha. But the skin of the	-	2.26

					variety is very light because of which the crop get damaged during transportation		
Denavelling and post shoot feeding in Banana var. Cavendish	Unequal size of fingers on the bunch	Denavelled end is treated with a slurry made up of 7.5g urea+7.5g sulphate of potash + 500g fresh cowdung	3	Better quality of finger regarding length (27 cm), weight (150g) & % equal size of finger on bunch (86.78%) are produced after the treatment.	Percent equal size of fingers (86.78%) on the bunch is produced due to denavelling.		
IPM in brinjal fruit & shoot borer	Heavy use of pesticides against fruit and shoot borer	Cultural practices use of mustard oil cake, Pheromone trape @ 10 trap / ha, application of neem based pesticide @ 5ml/liter at 7 days interval.	1	Due to use of mustard oil cake, pheromone traps and neem based pesticide yield increases in compared to control.	Farmers are satisfied with the performance of the technology as compared to local method	-	2.5
IPM in Tomato	Heavy use of pesticides against fruit and shoot borer	Seed treatment with Biofor PF , use of pheromone trap @ 10 trap/ ha , and use of neem oil @ 5ml/liter at 7 days interval.	3	Due to seed treatment with Biofor PF and use of neem oil yield increases in compared to control plot. For tomato fruit and shoot borer heli lure has not been found.	Farmers are satisfied with the performance of the technology as compared to local method	-	2.26
Performance of T & D pig in Sivasagar	Lower productive and reproductive performance of existing local varieties	Variety T & D	3	The average body weight is 52 kg at 8 months of age under field condition. Pigs are pregnant and will be bred in the next July, 2013	Farmers are satisfied with the performance of the improved variety as compared to local.	No disease outbreak and performed better with garbage feeding.	Results are awaited
Augmenting productive and	Lower reproductive	Area specific mineral mixture AAUVETMIN @	3	The general health condition has been improved after	Farmers are satisfied till now.	-	Results are

reproductive performances of dairy cattle through supplementation of AAUVETMIN	and productive performance in dairy cattle due to Mineral deficiency.	30 g per day per animal.		supplementing AAUVETMIN.			awaited
Culture of Magur	Lack of cultural practice for native magur	Culture of Magur	2	60% fish has been harvested.	Farmers are eager to take up the technology in a large scale	Assessment on Feed and age of the Seed	1.5
Evaluation of OFT as undertaken by KVK sivasagar (Farmers perception towards existing technology and OFTs undertaken by KVK	Though some of the OFTs are experimented at farmer's field but farmers are not perceived the technology as better.	-	8	Farmers perceived the following technologies better as compared to existing as shown by the following scores: 1. Performance of Submergence tolerant paddy variety Swarna Sub-1. Score= 60.5, Control= 46.5 (Out of total score=90) 2. Nutrient management in rice- toria sequence. Score=51.33, Control= 46.67 (Out of total score=70) 3. Evaluation of T & D pig. Score= 87, Control=74.33 (Out of total score=130)	-	-	-
Impact of KVKs intervention in increasing the production and productivity of paddy and vegetable crops in adopted village	-	-	40	1. Extent of adoption of scientific cultivation practices of paddy are increasing after adopting the village. 2. Production, productivity and annual income from paddy and vegetable crops are increasing after adopting the village.	-	-	-

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

3.2 Achievements of Frontline Demonstrations

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

List of technologies demonstrated during previous year and popularized during 2012-13 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Technology demonstrated	Horizontal spread of technology		
			No. of villages	No. of farmers	Area in ha
1	Production of vermicompost	Production of vermicompost using low cost materials	10	120	70 units
2	Poultry (Vanaraja)	Dual purpose backyard poultry	12	49	49 units

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

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement	Farming situation (Rf/ Irri, Soil type, altitude, etc)	Status of soil (Kg/ha)		
					Proposed	Actual	SC/ST	Others	Total			N	P	K
1	Paddy	Promotion of improved varieties	Aromatic variety Keteki joha	Kharif, 2012	1	1	0	2	2	NA	RF			
2	Blackgram	Promotion of improved varieties	Var. KU-301	Kharif, 12	1	1	0	2	2	NA	RF			
3	Sesamum	Promotion of improved varieties	Var. AST-1	Rabi, 2012-13	1	1	0	2	2	NA	RF			
4	Pea	Promotion of improved varieties	Var. Azad	Rabi, 2012-13	1	1	0	2	2	NA	RF			
5	Toria	Promotion of improved varieties	Var. TS-38	Rabi, 2012-13	5	5	1	6	7	NA	RF			
6	Potato	Irrigation management in potato	Three irrigations at 25, 60 and 80 DAP	Rabi, 12-13	0.13	0.13	0	1	1	NA	Irrigated			
7	Sugarcane	Promotion of improved varieties	HYV of sugarcane var- Kolong	Kharif, 12	0.13	0.13	0	1	1	NA	RF			

8	Paddy	IPM	Seed treatment with chemical fungicide, 6 releases of trichogramma japonicum @ 50000 /ha/ week, use of pheromone trap.	Kharif, 2012	1.0	1.0	0	7	7	NA	RF			
9	Potato	IPM	Var. Kufriyoti	Rabi, 2012-13	0.13	0.13	0	1	1	NA	RF			
10	Paddy	INM	Azolla incorporation in winter paddy fields at 20-25 DAT	Kharif 2012	2 ha	2 ha	0	2	2	Nil	Rf, Clay loam, Medium Land	448	22	190
11	Gerbera	Popularization of new varieties	Gerbera var. Red Gem	Kharif, 12		0.2	0	3	3	NA	RF			
12	Pineapple	Weed management	Mulching with rice straw	Rabi, 2012		0.2	0	3	3	NA	RF			
13	Mandarin	Orchard rejuvenation	Rejuvenation	Rabi, 2012		0.2	0	3	3	NA	RF			
14	Areca nut	Multiple cropping system	Areca nut based cropping system	Kharif, 2012		0.2	0	1	1	NA	RF			
15	Hort fish	Integrated farming system	Hort-fish farming	Kharif, 2012		0.2	0	1	1	NA	RF			
16	Fish seed	Seed production	Carp seed production at backyard pond	Kharif, 2012	0.01	0.01	0	2	2	NA	RF			
17	Table fish	Composite fish culture	Composite culture of carps and barbs	Kharif, 2012	0.13	0.13	1	1	2	NA	RF			

Performance of FLD

Sl. No.	Crop	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Data on parameter in relation to technology demonstrated (Yield, Disease incidence, etc. as specified in FLD Programme)		Economic Impact				Technical Feedback on the Demonstrated Technology	Farmers' Reaction on specific Technologies
								Average Net Return (Profit) (Rs./ha)		B.C. Ratio			
		H	L	A		Demo	Local	Demo	Local	Demo	Local		
		7	8	9		10	12	13					
1	Paddy	43.5	43.5	43.5	38.0	43.5	38.0	18500	13000	1.74	1.52		
2	Blackgram	13.0	11.0	12.0	9.0	12.0	9.0	35000	20000	2.40	1.80		
3	Sesamum	5.0	3.5	4.25	3.5	4.25	3.5	22500	10000	2.12	1.75		
4	Pea	22.0	18.0	20.0	16.5	20.0	16.5	80000	54300	3.00	2.47		
5	Toria	12.0	9.4	10.7	8.2	10.7	8.2	22800	12800	2.14	1.64		
6	Potato	130.0	130.0	130.0	90.0	130.0	90.0	90000	50000	2.25	2.25		
7	Sugarcane	650.0	650.0	650.0		650.0		80000	-	2.60	-		
8	Paddy	37.5	33.5	34.5	32.5	34.5	32.5						
9	Potato	130.0	130.0	130.0	90.0	130.0	90.0						
10	Paddy	48.9	44.1	46.5	43.1	46.5	43.1	12842	13210	1.15	1.03		
11	Gerbera	Ongoing											
12	Pineapple	Ongoing											
13	Mandarin	Ongoing											
14	Arecanut	Ongoing											
15	Hort fish	Ongoing											
16	Fish seed	55% recovery	45% recovery	50% recovery	-	50% recovery	-	-	-	3:1	-	-	
17	Table fish	46.0	44.0	45.0	25.0	45.0	25.0	450000/-	250000/-	2:1		-	

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

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days	4	03.12.12	28	
			06.12.12	21	
			12.12.12	24	
			06.02.13	34	
2	Farmers Training	2	17.08.12	32	
			28.09.12	25	
3	Media coverage				
4	Training for extension functionaries				

c. Details of FLD on Enterprises**(i) Farm Implements**

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

(ii) Livestock Enterprises

Enterprise	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		
Poultry	Vanaraja	13	140	Birds are in growing stage, body weight at 2 months of age= 850g/bird under traditional system.	850g/ bird	425 g/bird	200%	Mortality up to 2 months of age is only 2%
Duck	Khaki Campbell	10	100	Age at 1 st egg=160 days, birds are in laying stage.	Age at 1 st egg=160 days	Age at 1 st egg=210 days	the demonstrated birds laid eggs 50 days advance than the local one	The birds are highly susceptible to cold shock.

(iii) Other Enterprises

Enterprise	Variety/ breed/Species/others	No. of farmers	No. of Units	Performance parameters / indicators	Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		
Mushroom	Oyster	8	8					
Vermi compost	<i>Eisenia foetida</i> , <i>Eudrillus euginae</i>	75	75	Yield, time of composting	120 kg/m ³ /75 days	-	-	
Farmers perception towards existing and FLDs technology	Demonstration on scented rice <i>var.</i> Keteki Joha	2	2	Score assigned for FLD and existing tecnology	Score assigned for FLD=51.50	Score assigned for existing= 43.50	-	Farmers are satisfied with the demonstrated tecnology as compared to local
	Demonstration on dual purpose backyard poultry 'Vanaraja'	5	5	Score assigned for FLD and existing tecnology	Score assigned for FLD=70.2	Score assigned for existing= 61	-	
	Demonstration on Improved variety of duck 'Khaki Campbell' (n=10)	10	10	Score assigned for FLD and existing tecnology	Score assigned for FLD=62.4	Score assigned for existing= 59.5	-	
Impact analysis	Impact of training programmes on <i>Sali</i> rice cultivation	50	50	Adoption of scientific tecnology & Yield.	Adoption of tecnology was high. Yield of Ranjit = 54.3 q/ha	Yield of Ranjit = 48.2 q/ha	-	Extent of adoption of scientific cultivation and yield of rice was high after the received of training.

Off-season vegetables																							
Nursery raising	0	1	1	0	21	0	8	0	29	0	0	0	0	0	0	0	21	0	8	0	29	29	
Exotic vegetables like Broccoli																							
Export potential vegetables																							
Grading and standardization																							
Protective cultivation (Green Houses, Shade Net etc.)																							
b) Fruits																							
Training and Pruning																							
Layout and Management of Orchards	0	1	1	0	25	0	1	0	26	0	0	0	0	0	0	0	25	0	1	0	26	26	
Cultivation of Fruit	0	1	1	0	21	0	8	0	29	0	0	0	0	0	0	0	21	0	8	0	29	29	
Management of young plants/orchards	0	1	1	0	11	0	9	0	20	0	6	0	0	0	6	0	17	0	6	0	26	26	
Rejuvenation of old orchards																							
Export potential fruits																							
Micro irrigation systems of orchards																							
Plant propagation techniques																							
c) Ornamental Plants																							

organization																							
Information networking among farmers																							
Capacity building for ICT application																							
Care and maintenance of farm machinery and implements																							
WTO and IPR issues																							
Management in farm animals																							
Livestock feed and fodder production																							
Household food security																							
Women and Child care																							
Low cost and nutrient efficient diet designing																							
Production use of organic inputs																							
Gender mainstreaming through SHGs																							
Planting material production	0	1	1	0	16	0	1	0	17	0	3	0	0	0	3	0	19	0	1	0	20	20	
PRA methodologies	0	1	1	0	14	0	1	0	15	0	0	0	0	0	0	0	14	0	1	0	15	15	
TOTAL	0	3	3	0	51	0	3	0	54	0	4	0	0	0	4	0	55	0	3	0	58	58	

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

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration in days	Venue (Off / On Campus)	Number of other participants			Number of SC/ST			Total number of participants		
							Male	Female	Total	Male	Female	Total	Male	Female	Total
02.06.12	PF	Production technology of Salirice	Agronomy	ICM	1	Off	39	0	39	3	0	3	42	0	42
22.06.12	PF	Production technology of Salirice	Agronomy	ICM	1	Off	30	0	30	3	0	3	33	0	33
23.06.12	PF	Scientific rice cultivation	Agronomy	ICM	1	Off	22	10	32	0	0	0	22	10	32
27.06.12	PF	Scientific rice cultivation	Agronomy	ICM	1	Off	16	2	18	0	0	0	16	2	18
14.07.12	PF	Scientific rice cultivation	Agronomy	ICM	1	Off	12	8	20	0	0	0	12	8	20
16.07.12	PF	Scientific rice cultivation	Agronomy	ICM	1	Off	39	0	39	7	3	10	46	3	49
31.08.12	PF	Scientific rice cultivation	Agronomy	ICM	1	Off	18	5	23	2	0	2	20	5	25
21.09.12	PF	Scientific rice cultivation	Agronomy	ICM	1	Off	21	4	25	0	0	0	21	4	25
28.09.12	PF	Scientific rice cultivation	Agronomy	ICM	1	Off	24	1	25	0	0	0	24	1	25
17.10.12	PF	Scientific rice cultivation	Agronomy	ICM	1	Off	23	2	25	0	0	0	23	2	25
20.12.12	PF	Scientific production technology of toria	Agronomy	ICM	1	Off	8	18	26	0	0	0	8	18	26
11.05.12	PF	Management practices of nursery	Horticulture	Nursery management		Off	0	0	0	21	8	29	21	8	27
31.07.12	PF	Layout and	Horticulture	Orchard		Off	6	0	6	11	9	20	17	9	26

		management of citrus orchard		manage ment											
04.09.12	PF	Layout & management of banana orchard	Horticulture	Orchard manage ment		Off	0	0	0	24	2	26	24	2	26
11.10.12	PF	Commercial cultivation of pineapple	Horticulture	ICM		Off	0	0	0	6	29	35	6	29	35
11.09.12	RY	Nursery management of seasonal flower crops	Horticulture	Nursery manage ment		Off	0	0	0	27	0	27	27	0	27
23.11.12	RY	Commercial cultivation of pineapple	Horticulture	Orchard manage ment		Off	2	1	3	10	12	22	12	13	25
01.08.12	EF	Planting material production of gerbera & tuberose	Horticulture	Commerc ial floricultu re		Off	3	0	3	16	1	17	19	1	20
07.09.12	PF	Scientific pig production	Animal science	Piggery		Off	0	0	0	18	8	26	18	87	26
15.10.12	PF	Scientific management of dairy cattle	Animal science	Dairy		Off	0	0	0	23	2	25	23	2	25
20.07.12	RY	Scientific broiler production	Animal science	Poultry		Off	0	0	0	24	3	27	24	3	27
28.02.13	RY	Scientific duck production	Animal science	Poultry		Off	0	0	0	5	19	24	5	19	24
14.07.12	PF	Composite fish culture	Fishery	Composit e fish culture	1	Off	0	0	0	15	10	25	15	10	25

17.07.12	PF	Composite fish culture	Fishery	Composite fish culture	1	Off	0	0	0	24	1	25	24	1	25
13.08.12	PF	Integrated fish farming for better livelihood	Fishery	Integrated fish farming	3	Off	0	0	0	24	2	26	24	2	26
13.09.12	PF	Integrated fish farming for better livelihood	Fishery	Integrated fish farming	3	Off	0	0	0	27	5	32	27	5	32
26.02.13	PF	Composite fish farming	Fishery	Composite fish farming	1	Off	0	0	0	22	3	25	22	3	25
14.02.12	RY	Integrated Fish Farming for better Livelihood	Fishery	Integrated fish farming	3	Off	0	0	0	25	25	50	25	25	30
12.03.13	RY	Integrated Fish Farming for better Livelihood	Fishery	Integrated fish farming	3	Off	1	1	2	12	24	36	13	25	38
24.07.12	PF	IPM in kharif vegetables.	Plant protection	IPM	1	Off	26	0	26	4	0	4	30	0	30
31.07.12	PF	IPM in Sali rice.	Plant protection	IPM	1	Off	2	0	2	23	0	23	25	0	25
17.08.12	PF	FLD training on IPM in Ketekijaha.	Plant protection	IPM	1	Off	1	0	1	23	8	31	24	8	32
12.09.12	PF	IPM in kharif vegetables	Plant protection	IPM	1	Off	1	0	1	16	0	16	17	0	17
28.09.12	PF	FLD training on IPM in Ketekijaha.	Plant protection	IPM	1	Off	0	0	0	13	12	25	13	12	25
20.11.12	PF	IPM in Rabi vegetables.	Plant protection	IPM	1	Off	4	0	4	26	10	36	30	10	40
22.11.12	PF	IPM in Boro rice.	Plant protection	IPM	1	Off	0	0	0	26	1	27	26	1	27
03.09.12	RY	Preparation of Biopesticides	Plant protection	Production of	2	Off	1	0	1	23	1	24	24	1	25

				biopesticide											
10.07.12	F	Production of organic inputs	Soil Science	Soil health	1	On	0	24	24	0	1	1	0	25	25
09.08.12	F	Azolla culture and preparation of enriched compost	Soil Science	Soil health	1	Off	17	8	25	0	0	0	17	8	25
26.09.12-27.09.12	F	Integrated Nutrient Management	Soil Science	INM	2	Off	2	2	4	19	5	24	21	7	28
02.11.12	F	Soil Management Practices for Sustained Soil Fertility	Soil Science	Soil fertility management	1	Off	29	3	32	0	0	0	29	3	32
14.03.13	F	Soil Management Practices for Sustained Soil Fertility	Soil Science	Soil fertility management	1	Off	0	44	44	0	0	0	0	44	44
06.08.12	F	Formation of farmers club for socio economic development of rural people	Agril. Extension	Formation of farmers' club	1	Off	0	0		10	15	25	10	15	25
17.08.12	RY	Capacity building for technical strengthening of SHG	Agril. Extension	Management of SHG	1	Off	0	0		0	25	25	0	25	25
29.09.12	RY	Agril entrepreneurship development for upliftment of rural people	Agril. Extension	Entrepreneurship development	1	Off	0	0		8	17	25	8	17	25
30.03.13	EF	PRA programmes and its application for identification of rural problems	Agril. Extension	PRA			0	0		14	1	15	14	1	15

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
					Male	Female	Total	Type of units	Number of units	Number of persons employed	

*training title should specify the major technology /skill transferred

(E) Sponsored Training Programmes

Sl. No	Date	Title	Discipline	Thematic area	Duration (days)	Client (PF/ RY/ EF)	No. of courses	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
								Others			SC/ST			Total				
								M	F	T	M	F	T	M	F	T		
1	6 th Feb, 13	Scientific cultivation of tuber crops	Horticulture	Tuber crops	1	Mixed	1	25	20	45	0	0	0	25	20	45	AICRP on Tuber Crops, AAU	29000

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

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of activities	Participants											
				Farmers (Others) (I)			SC/ST (Farmers) (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Field Day	03.12.12	4	18	4	22	4	0	4	0	2	2	22	6	28
		06.12.12		13	8	21	0	0	0	0	0	0	13	8	21
		12.12.12		24	0	24	0	0	0	0	0	0	24	0	24
		06.02.13		32	0	32	0	0	0	1	1	2	33	1	34
2	Exposure Visit	16.03.13 - 24.03.13	1	14	0	14	1	0	1	1	0	1	16	0	16
3	F.S. Interaction	06.07.12	2	14	1	15	0	0	0	4	2	6	18	3	21
		11.02.13		27	22	49	8	0	8	2	1	3	37	23	60
4	Animal health Camp	23.07.12	2	56	3	59	0	0	0	4	0	4	60	3	63
		04.09.12		1	6	7	0	0	0	4	0	4	5	6	11

3.5 Production and supply of Technological products during 2012-13

SEED MATERIALS

Major group/class	Crop	Variety	Quantity (qt)	Value (Rs.)	Provided to No. of Farmers/Other Agencies
CEREALS	Paddy	Mahsuri	7.80	20475.00	Ready for sale
OILSEEDS					
PULSES					
VEGETABLES					
FLOWER CROPS					
OTHERS (Specify)					
VERMICOMPOST			6.40		

SUMMARY

Sl. No.	Major group/class	Quantity (qtl.)	Value (Rs.)	Provided to No. of Farmers/Other Agencies
1	CEREALS	7.80	20475.00	Ready for sale
2	OILSEEDS			
3	PULSES			
4	VEGETABLES			
5	FLOWER CROPS			
6	OTHERS			
	VERMICOMPOST	6.40	6400.00	
	TOTAL	14.20	26875.00	

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
FRUITS					
SPICES					
VEGETABLES					
FOREST SPECIES					
ORNAMENTAL CROPS					
PLANTATION CROPS					
Others (specify)					

SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	FRUITS			
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES			
5	ORNAMENTAL CROPS			
6	PLANTATION CROPS			
7	OTHERS			
	TOTAL			

BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
BIOFERTILIZERS						
BIO PESTICIDES						

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

LIVESTOCK

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos)	Kgs		
CATTLE						
SHEEP AND GOAT						
GOAT	Kid	Beetal	6	-	12000.00	Not yet sold
POULTRY	Chicken	Vanaraja	13	-	1300.00	Not yet sold
	Duck	Khaki Campbell	4	-	1000.00	Not yet sold
	Duck	Muscovy	11	-	2200.00	Not yet sold
FISHERIES						

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE					
2	SHEEP & GOAT (Kid)	Beetal	12			
3	POULTRY					
4	FISHERIES					
5	OTHERS					
	TOTAL					

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

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

(B) Literature developed/published

Item	Title	Authors name	Number of copies
Research papers	Hatchability and mortality of Indigenous Chicken in Assam.	Kalita, N., Islam, R. , Pathak, N., & Chutia, H.	
	Effect of season on fertility, hatchability and embryonic mortality of eggs in an indigenous flock of Assam.	Kalita, N., Islam, R. , Pathak, N., & Chutia, H.	
	Performance of Pb2 bird in intensive system of management.	Kalita, N., Pathak, N. & Islam, R.	
	Performance of indigenous chicken in intensive system of management.	Kalita, N., Pathak, N. & Islam, R.	
	Food and Feeding Habits of <i>Gudusia chapra</i> (Hamilton, 1822) from Silinga Beel of Lower Reaches of subansiri River in Assam	Phukan. B, Baishya. S, Sharma. P, Rajbongshi. A, Rahman Abdur (2012). <i>Environment & Ecology</i> (3): 578 – 580, July – September, 2012	
	Distribution and traditional cultivation practices of important bamboo species in Papumpare district of Arunachal Pradesh	Handique, P. , Dutta, B. K., Das, A. K. & Rethy, P.	
Total	6		
Technical reports	Annual Action Plan		2
	Annual Report		2
	Contingency Plan of Sivasagar		
	District profile		
	KVK Profile		
	Resource Inventory		
	ZREAC Report		
Total	7		
Popular articles	Care & management of capsicum, <i>Dainik Janambhumi</i> , 14.02.13	Luna Barooah	
	Good Agricultural Practices, Prantik, 1-15.03.13	Prodip Handique	
	Pests of mango & their management, <i>Dainik Janambhumi</i> , 12.04.13	Luna Barooah	
	Profitable cultivation of okra, <i>Dainik Janambhumi</i> , 10.05.12	Luna Barooah	

	Commercial importance of stevia, <i>Dainik Janambhumi</i> , 12.05.12	Luna Barooah	
	Fish feed and nutrition, <i>Dainik Janambhumi</i> , 14.06.12	Abdur Rahman	
	Production technology of gerbera <i>Dainik Janambhumi</i> , 09.08.12	Luna Barooah	
	Production technology of mandarin <i>Dainik Janambhumi</i> , 24.08.12	Luna Barooah	
	Cultivation practices of gladiolus, <i>Seuj Prabah</i> , 12.09.12	Luna Barooah	
	Diseases of cole crops & their management, <i>Dainik Janambhumi</i> , 08.11.12	Luna Barooah	
	Importance of fruit cultivation, <i>Dainik Janambhumi</i> , 22.11.12	Luna Barooah	
	Early okra cultivation, <i>Dainik Janambhumi</i> , 24.01.13	Luna Barooah	
	Importance of water management in agriculture, <i>Aabad</i> , 2013	Rupjyoti Borah	
	Egg- some superstitions, some miss conception, <i>Raijor Batori</i> , 13.03.13	Dr. Rafiqul Islam	
	Diseases of poultry and their management, <i>Raijor Batori</i> , 18.07.12	Dr. Rafiqul Islam	
	Proper shed cleaning and disinfection – a key to profitable broiler production,	Dr. Rafiqul Islam	
	Medicinal properties of rapeseed and sesamum, <i>Proyovora</i> , page: 71-72	P. Handique	
	Farmer field school <i>Proyovora</i> , page: 54-55	P. Handique	
	Islam, R. & Handique, P. (2012): Broiler kukura pamat danar apashaya aru yar hubyabastha, <i>Ghore pothare</i> , page-4.	P. Handique and Dr. Rafiqul Islam	
Total		19	
GrandTotal		32	

N.B. Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(C) Details of Electronic Media Produced

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

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

- **Roselin Sultana** : Having trained in a seven days extensive hands on training on Zarapkar System of cutting which was imparted to 14 women of the villages of Rohdoi, Patorgaon, Konwargaon and Nimaigarh Habigaon, Roselin Sultana have already turned into an entrepreneur and has started an enterprise named “Dress Designer Roselin’s” at Silasaku, which was inaugurated by Dr. M. Neog, ADEE, AAU and Dr. U. Goswami, Senior Extension Specialist on 13/12/2012 at Silasaku.



- **Grihinee** : A group of twenty-five women of the village Dikhowmukh under the leadership of Jayanta Dutta and Bipul Dutta were trained by KVK, Sivasagar on preservation of fruits. Presently, the group is involved in preparation of pickles, jam, jelly of different locally available indigenous fruits like aonla, olive, carambola, amora, guava, rosalle. The products are marketed under the trade name “Grihinee”. Mostly their products are supplied to the hotels & Dhabas of Gaurisagar. At present they are involved in preparation of pickles from etc.

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
1	Vermicompost production in low cost enclosure	Disposable Thermocol box used for frozen fish carrying	Can be used for production of vermicompost in household (Photo enclosed)

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

- Identification of courses for farmers/farm women, rural youth and in-service personnel: PRA, Survey, Group Discussion, Demand from farmers

3.11 Field activities

- i. Number of villages adopted : 2 (Bengmuria Konwar gaon and Pulibar Mohan gaon)
- ii. No. of farm families selected : 60
- iii. No. of survey/PRA conducted : 3

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Not yet established :

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

Sl. No	Name of the Equipment	Qty.	Cost
1			
Total			

3. Details of samples analyzed so far :

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

4.0 IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs./ ha)	
			Before (Rs./ha)	After (Rs./ha)
Use of improved production technology of rice	125	57%	7500.00	14400.00
Composite fish culture	200	30%	100000.00	250000.00
Vermicompost production	150	60%	-	11000.00
Backyard poultry farming	175	45%	60000.00/family/yr	70000.00/family/yr

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)

- **Vermicompost production in homestead** : Women in most of the villages of Sivasagar are remarkably organized into SHGs. But a recent study by KVK revealed that most of the SHGs are running with no economic activity. More than 200 such groups are functioning



Initial training at KVK on 10.07.12



Hands-on training on 12.10.12



Developing expertise in production

in Nazira block itself. The PRA conducted by KVK in these villages indicated that very less organic matter is used in the fields. It also revealed that vermicompost is an economic activity that could be taken widely by the SHGs of the village owing to the large availability of farm waste and leaf fall from the trees. Targetting these opportunities, a group of women of the village Bengmuria Konwargaon, Mohangaon, Nimaigarh were trained by KVK intensively for preparation of Vermicompost in household using cost materials for the tank and utilizing the available farm and kitchen waste. Initially, they started the process with disposable thermocol containers that are used for frozen fish carriage. Later they started making tanks with bamboo lathe. Each household in the village has started the process in enclosures like this and are now producing vermicompost.



Production in bamboo lathe structure



Production in disposable thermocol boxes

This vermicompost is now being used in their farm fields and is now capturing the market slowly. Small tea growers are procuring the product on a regular basis. They are hoping to make their village known as the first vermicompost village of the district. Seeing the success of these SHGs, large numbers of SHGs of adjacent villages are now slowly taking up this production in a large scale.

- **Vanaraja, a dual purpose poultry gaining popularity:** An FLD on dual purpose backyard poultry Vanaraja was carried out in the villages of Nimaigarh, Bengmuria Konwargaon, Ramugaon and Patorgaon involving farm women. Initially, Fifty chicks were distributed in five households. The hens are now laying eggs. This demonstration has triggered horizontal spread of the technology which is evident from the heavy demand of chicks and eggs of the variety. Till the end of this month 1005 chicks were distributed among farm women involving 52 farm women. Also from the initially demonstrated families, 1086 hatching eggs were sold by the farm women to other farm women of different villages of the district.



Vanaraja, a dual purpose backyard poultry gaining popularity

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

Impact of training programme on Sali rice

METHODOLOGY:

The study was under taken to assess the impact of training programmes conducted by KVK, Sivasagar for the last 5 years (2007 to 2011). A total of 10 numbers of training programmes were conducted by KVK, Sivasagar to increase the production and productivity of Sali rice during that pperiod. A purposive random sampling technique was followed for selection of 50 numbers of beneficiaries (20% of total beneficiary) to achieve the objectives mentioned above. A pre-tested research schedule was prepared based on literature available with the help of experts on paddy. An extensive personal interview of the respondents was undertaken in the year 2012 to collect the relevant information to find out the impact of KVK intervention. A statistical measure used in the study was percentage. The analyzed data are presented in the following tables.

Results:

Table 1. Extent of adoption of scientific cultivation practices of winter paddy

(N=50)

Sl. No	Practice	Frequency & percentage (Before training)	Frequency & percentage (After training)	Increase in adoption percentage
1	High yielding Variety selection	12 (24.00%)	40 (80.00%)	28 (56.00%)
2	Seed selection	8 (16.00%)	20 (40.00%)	12 (24.00%)
3	Seed treatment	1 (2.00%)	7 (14.00%)	6 (12.00%)
4	Recommended dose for seed treatment	0 (0.00%)	4 (8.00%)	4 (8.00%)
5	Wet seed bed preparation	50 (100.00%)	50 (100.00%)	0 (0.00)
6	Seed bed size	0 (0.00)	6 (12.00%)	6 (12.00%)
7	Use of fertilizers in seed bed	0 (0.00)	8 (16.00%)	8 (16.00%)
8	Recommended fertilizer dose used in seed bed	0 (0.00)	4 (8.00%)	4 (8.00%)
9	Seed rate	8 (16.00%)	30 (60.00%)	22 (44.00%)
10	Sowing time	5 (10.00%)	38 (76.00%)	33 (66.00%)
11	No of ploughing	11 (22.00%)	39 (78.00%)	28 (56.00%)
12	Fertilizers used in main field	6 (12.00%)	28 (56.00%)	22 (44.00%)
13	Recommended dose used	0 (0.00)	9 (18.00)	9 (18.00%)
14	Maintenance of plant population	5 (10.00%)	20 (40.00%)	15 (30.00%)

15	No of seedling/ hill	8 (16.00%)	19 (38.00%)	11 (22.00%)
16	Weeding	6 (12.00%)	12 (24.00%)	6 (12.00%)
17	Pest and disease control	4 (8.00%)	17 (34.00%)	13 (26.00%)

Table 2 Area, Production and productivity of winter paddy in the study sites

Sl. No.	Variety	Before KVK intervention			After KVK intervention			Increase/ decrease in area (ha)	Increase/ decrease in production (q)	Increase/ decrease in productivity (q/ha)
		Area (ha)	Total production (q)	Productivity (q/ha)	Area (ha)	Total production (q)	Productivity (q/ha)			
1	Ranjit	6.07	291.36	48.00	24.67	1430.86	58.00	18.60	1139.50	10.00
2	Mahsuri	3.60	108.00	30.00	8.53	368.50	43.20	4.93	260.50	13.20
Sub total of HYV		9.67	399.36	41.30	33.20	1799.36	54.20	23.53	1400.00	12.90
3	Soilahi	26.80	683.40	25.50	8.00	263.28	32.91	(-)18.80	(-) 420.12	7.41
4	Jahinga	8.40	189.00	22.50	4.67	133.89	28.67	(-) 3.73	(-) 55.11	6.17
Sub total of local		35.20	872.40	24.78	12.67	397.17	31.35	(-) 22.53	(-) 475.23	6.79
5	Bora	6.00	126.00	21.00	6.73	180.84	26.87	0.73	54.84	5.87
6	Joha	4.40	72.60	16.50	2.67	64.83	24.28	(-) 1.73	(-) 7.77	7.78

From the findings of the research study, following important and specific conclusion may be drawn.

- The increase in knowledge level of farmers on scientific cultivation practice of paddy may be due to intervention of Krishi Vigyan Kendra, Sivasagar through training programme.
- The area under HYV increased after receiving the training programme.
- The production, productivity and annual income per hectare from paddy by the farming community increased after training programme on Sali rice.

5.0 LINKAGES

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1. District Agricultural Office	Implementation of ATMA programme and selection of participants
2. District Animal Husbandry & Veterinary Office	Joint implementation of programmes
3. District Fishery Development Office	Joint implementation of programmes
4. District Sericulture Office	Joint implementation of programmes
5. District Forest Office	Joint implementation of programmes
6. District Industry Office	Joint implementation of programmes
7. DRDA	Joint implementation of programmes
8. Banking Organization (NABARD etc.)	Contribution for infrastructural development
9. NGOs	Conducting training programmes and demonstration

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

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

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
FARP	Rabi, 2012	Ministry of Water Resources, GOI	3,44,000.00
RKVY		GOI	

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

Sl. No.	Programme	Nature of linkage	Remarks
1	Training	As Resource person	Attended training as resource person
2	Technical Programme	Technical guidance	Formulation of programmes, selection of sites
3	ATMA demonstration	Monitoring and reporting	Monitoring and evaluation of pest and disease infestation and subsequent recommendation

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

Sl. No.	Programme	Nature of linkage	Constraints if any

5.5 Nature of linkage with National Fisheries Development Board : NA

Sl. No.	Programme	Nature of linkage	Remarks

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Mushroom	2012-13	-	Oyster	Fresh mushroom	6.5 kg		650.00	
2	Goatery			Beetal	Kid	4			
3	Vermicompost			<i>E. foetida</i> <i>E. euginae</i>	Vermicompost	6.40	-	-	Used in farm

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	13.6.12	8.11.12	0.4	Mahsuri	Foundation seed	7.8 q	15000.00		Ready for sale
Pulses									
Pigeon pea									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
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	Type of Produce	Qty.	Cost of inputs	Gross income	
1							

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit : Unit not available

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

6.5 Utilization of hostel facilities (Month Wise): NA

Accommodation available (No. of beds) :

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

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	SBI, AAU Branch	AAU, Jorhat – 13	
With KVK	SBI, ADB, Gargaon	Simoluguri, Sivasagar	11671477783

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

Item	Released by ICAR/ZPD		Expenditure		Unspent balance as on 31 st March, 2013
	2009-10	2010-11	2011-12	2012-13	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of KVK funds during the year 2012 -13

Sl. No.	Particulars	Sanctioned (in Lakh)	Released (in Lakh)	Expenditure (in Lakh)
A. Recurring Contingencies				
1	Pay & Allowances	40.00	-	-
2	Traveling allowances	1.75		
3	Contingencies	8.00		
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		49.75	-	-
B. Non-Recurring Contingencies				
1	Works	NIL	-	-
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)				

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

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2010 to March 2011	1,00,000.00	-	-	
April 2011 to March 2012	1,00,000.00	1,925.00	8,328.00	
April 2012 to March 2013	91,672.00	-	Not Completed	

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

8.1 Constraints

(a) Administrative

- ❖ Lack of administrative building resulting in insufficient space for the Scientists and office staff for office running and improper storage of equipments
- ❖ Lack of complete boundary wall hindering production of crops and livestock in the KVK farm

(b) Financial

- ❖ The amount under recurring contingencies released is insufficient in implementation of the programmes targeted in the action plan
- ❖ Non-release of 2nd half demand and additional demand of fund in time hinders the smooth implementation of programmes

(c) Technical

- ❖ Lack of soil testing laboratory resulting in inability in meeting the demand of farmers for soil testing
- ❖ Lack of instruments and equipments for mushroom spawn production
- ❖ Insufficient technological backstopping for research components hinders the mandated OFT activities
- ❖ The vehicle is becoming old and needs frequent repair.

Programme Coordinator
KVK, Sivasagar